

6/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B18Ag1

TTA GAG ACC CAA TTG GGA CCT AAT TGG GAC CCA AAT TTC TCA AGT GGA	48
Leu Glu Thr Gln Leu Gly Pro Asn Trp Asp Pro Asn Phe Ser Ser Gly	
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Gly Arg Thr Phe Asp Asp Phe His Arg Tyr Leu Leu Val Gly Ile Gln	
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GGA GCT GCC CAG AAA CCT ATA AAC TTG TCT AAG GCG ATT GAA GTC GTC	144
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CAG GGG CAT GAT GAG TCA CCA GGA GTG TTT TTA GAG CAC CTC CAG GAG	192
Gln Gly His Asp Glu Ser Pro Gly Val Phe Leu Glu His Leu Gln Glu	
50 55 60	
GCT TAT CGG ATT TAC ACC CCT TTT GAC CTG GCA GCC CCC GAA AAT AGC	240
Ala Tyr Arg Ile Tyr Thr Pro Phe Asp Leu Ala Ala Pro Glu Asn Ser	
65 70 75 80	
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His Ala Leu Asn Leu Ala Phe Val Ala Gln Ala Ala Pro Asp Ser Lys	
85 90 95	
AGG AAA CTC CAA AAA CTA GAG GGA TTT TGC TGG AAT GAA TAC CAG TCA	336
Arg Lys Leu Gln Lys Leu Glu Gly Phe Cys Trp Asn Glu Tyr Gln Ser	
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GCT TTT AGA GAT ACC CTA AAA GGT TTT	363
Ala Phe Arg Asp Ser Leu Lys Gly Phe	
115 120	

Fig. 6

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B17Ag1

GC TGGGCACAGT GGCTCATACC TGTAATCCTG ACCGTTTCAG AGGCTCAGGT	60
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AA AATAAAAAA ATGAGCCTGG TGTAGTGGCA CACACCAGCT GAGGAGGGAG	180
CT AGGAGA	196

Fig. 7

7/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B17Ag2

GC TTGGGGGCTC TGACTAGAAA TTCAAGGAAC CTGGGATTCAGGTCCAACTG 60
AC TTACACTGTG GNTCCAATA AACTGCTTCT TTCTTATTC CTCTTATTA 120
AA GGAAAACGAT GTCTGTGTAT AGCCAAGTCA GNTATCTAA AAGGAGATAC 180
AT TAAATATCAG AATGTAAAAC CTGGGAACCA GGTTCACAG CTGGGATTAA 240
CA AGAAGACTGA ACAGTACTAC TGTGAAAAGC CCGAAGNGGC AATATGTTC 300
TT GAAGGATGGC TGGGAGAATG AATGCTCTGT CCCCAGTCC CAAGCTCACT 360
CT CTTTATAGC CTAGGAGA 388

Fig. 8

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B13Ag2a

GC CTATAATCAT GTTCTCATT ATTTTCACAT TTTATTAACC AATTCTGT 60
AA AATATGAGGG AAATATATGA AACAGGGAGG CAATGTTGAG ATAATTGATC 120
TG ATTCTACAT CAGATGCTCT TTCTTTCTCT GTTATTTTCC TTTTATTTTC 180
GG TCGAATGTAA TAGCTTTGTT TCAAGAGAGA GTTTTGGCAG TTTCTGTAGC 240
CT GCTCATGTCT CCAGGCATCT ATTTGCACTT TAGGAGGTGT CGTGGGAGAC 300
CT ATTTTITTECA TATTTGGGCA ACTACTA 337

Fig. 9

8/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B13Ag1b

GC CATAcAGTGC CTtTCCAtTT ATtTAACCCc cAcCTGAACG GCATAAACTG 60
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CG GCTGCTGTAT ATAGtTTtAA AtGGtTtATT GcACtCCtT AAGtTGCAtT 420
GG GGGGNTtTTTG NATAGAAAGT NtTTANtCAC ANAGtCACAG GGACTtTTNT 480
NA CtGAGCTAAA AAGGGCTGNT tTtCGGGtGG GGGCAGATGA AGGCTCACAG 540
tT tCTTAGAGGG GGGAAEtNCT A 571

Fig. 10

9/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B13Ag1a

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GG TGGGTGCTCA CTACTCTTTT TTTTTTTTTT TTTNTTTTGG AGATGGAGTC 240
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TT CATGAGATTG TCTGNTTCA GCCTTCCAG TAGCTGGGAC TACAGGTGTG 360
TG CCTGGNTAAT CTTTTTTNGT TTTNGGGTAG AGATGGGGGT TTTACATGTT 420
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TA CAGACATGAG CCACTGNGCC CAGNCTGGT GCATGCTCAC TTCTCTAGGC 540

Fig. 11

10/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B11Ag1

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CT ACTTTACGGA TATTGGAGCA TAACGGGA 638

Fig. 12

11/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
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Fig. 13

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
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AA ATAGTTTCCA TTACCGTCTT AATAAAATTC GGATTGTGTC TTTNCTATTN  240
CA CCTATGACCG AA   262

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Fig. 14

12/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B8C03

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GA TATATTCTTC TACATTAA CAATAAAAT AATCTATTT TAAAAGCCTA 180
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TG CCTATGACCG A 261

Fig. 15

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B2CA2

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TATGAATCTT GTTGTGAAAA TACTGCCCCC CTTCGTTTGA CGACGTGCGG TCGAAATCTT 180
AATCATGGTT GAGCCGGATG CTGCCCCGA AGCCCT 276

Fig. 16

13/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B3CA1

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*Fig. 17*NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B3CA2

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 AGCGTGATGG TACGTCTGGC CTGGAGCATG TGACTTTCTG 280

Fig. 18

14/19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B3CA3

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TC ATGGTCNACA TCCC 204

Fig. 19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE
BREAST-TUMOR SPECIFIC cDNA B4CA1

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Fig. 20

15/19

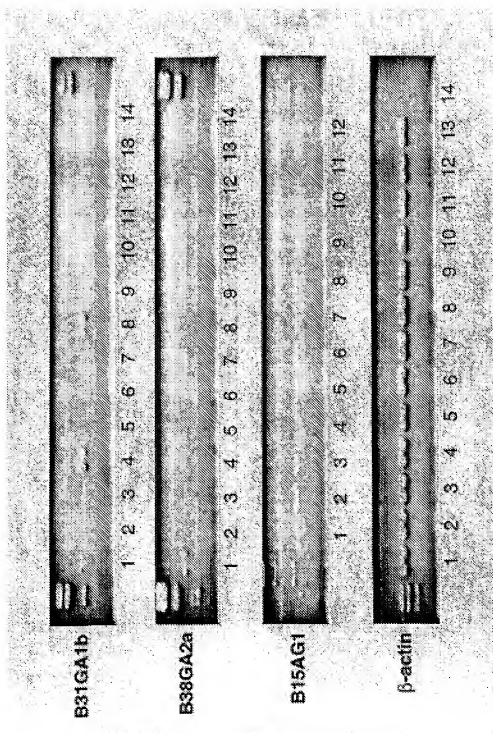


Fig. 21A

16/19

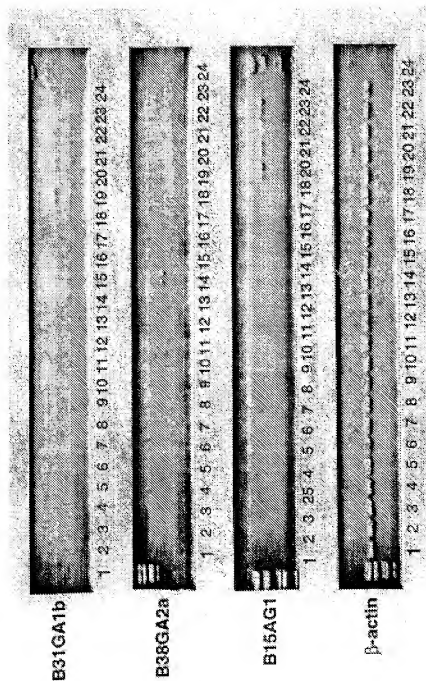
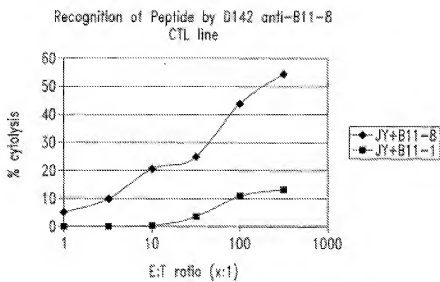
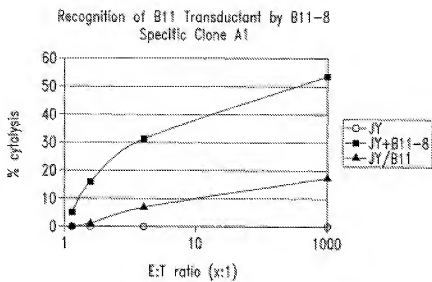


Fig. 21B

17/19

*Fig. 22*

18/19

*Fig. 23*

19/19

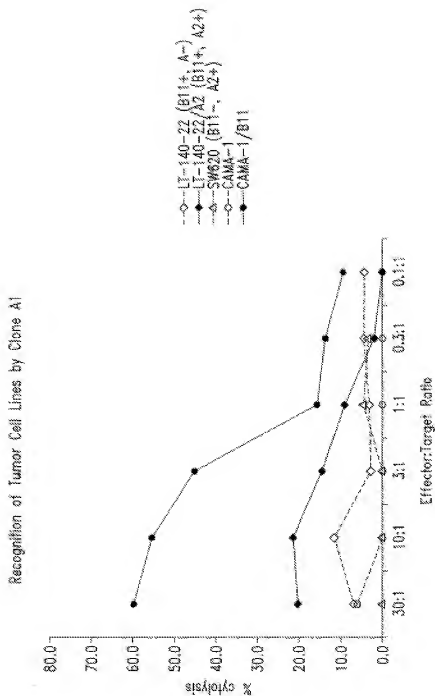


Fig. 24

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gtcccaagat	tctcccccgt	tgatgagctg	agatctggcc	tctcggggag	gctcagagct	420
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gctgtgtgtg	agggagctta	ttcccaagag	agggctcttt	gcttctgagt	aaagcaagag	540
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aaagtgtccc	ggatctctta	ttcccccgc	ccctcccccgc	ccctcccccgc	ggatctctta	960
ccctcccccgc	gtatctctta	ttcccccgc	aaagtgtccc	aggtgtctgt	gtatctctta	1020
aggtgtctgt	gtatctctta	ccctcccccgc	aaagtgtccc	aggtgtctgt	gtatctctta	1080
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<210> 8

<211> 1177

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1177)

<223> n = A, T, C or G

<400> 8

ccctctctta	gttctgacaa	ttcccccgc	ngctcgggca	gctgaaacaa	gctcgggtgt	60
aaagtgtccc	gagctataga	gttctctgtt	agctcgggca	ccctctctta	ccctcccccgc	120
aggtgtctgt	aaagcaatcc	ccctctctta	tgactcaagc	ccctctctta	gttctctgtt	180
gttctctgtt	gttctggaat	gttctggaat	gttctggaat	gttctggaat	gttctggaat	240
aggtgtctgt	gttctggaat	gttctggaat	gttctggaat	gttctggaat	gttctggaat	300

```

aggggggggg  gcaacngtta  ccaagggagac  tnatgtgttg  tgggctcagg  attkaccacac  366
aaacacactca  acmcmaagg  ctgaactgat  agcccttact  caggctctcg  gatggggtaa  420
gggattatcaa  agttaaacac  gacagcaggt  acgccttctg  taactgtgat  gtaagtgag  480
ccctcaacca  gggaggtggg  ctactaacac  ggcagggggc  tgtttatcac  tgaacagaga  540
catcaaaagg  aaaaamnggg  tgttgccctg  ggttaacana  aacactgatc  aaagctcnaa  600
gatgctgtgt  tgaacttcaa  tccmactctc  taacacttgc  gcmacantc  tcccttccca  660
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cctttccctc  ctattnaat  tttaacccc  ccccgccct  ccttttttaa  ctngtgaac  900
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aaaaagccac  antcccccac  naaatttgc  cngaaagga  aggaatttaa  cctttatctt  1020
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aaaagagaag  ttatttttc  cttngaacca  tcccaataa  aaaaacccc  aggggaacgg  1140
gggggaaggg  cctacaccc  ctttngtng  gggggaa  1177

```

<210> 9

<211> 1146

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) .. (1146)

<223> n = A,T,C,G or G

<400> 9

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nccatttmat  gatgttgtct  ttttggactc  totttggata  atttccctct  attcagaggt  60
gaaaagggtc  aaaggaggtc  gtggacgttc  atccacgttg  ggcacatgtg  ccaagagtac  120
agactccttc  agtggaggtc  aagcctgggg  atttccagag  aaggaggggt  takgggtttt  180
ccatttatcc  agtccagaa  tagaaagaa  ggcattaac  cagggaagggt  gtggagagct  240
ctacacccag  agggacttgt  gctctctctc  gtgttagtag  aggggctact  tccctccacc  300
acggttgcaa  ccaagagggc  atgggttgat  agcctcacgg  ggcattacac  gaggaagac  360
gggatgaacc  taaggaggtc  ggttggtttt  aaggcgttgg  gactgggtga  gggaaacttc  420
cctctctctc  agagagagac  gttacagggc  gagctgaacc  ggttgaggt  cggagggaaa  480
ccacggtctg  gttcaggagc  acatttgagc  taacttatg  aatggtgcat  gattggagcc  540
atggaaaggc  tgcctctgac  caaactcagc  cartgatcaa  tgtttaggaa  actgatcagg  600
gaagccggga  atttcattaa  caacccgcgc  caacggttga  acatttggag  gthcagttac  660
ccttcaaggg  ggcactccac  tccacatttg  ggcatttatc  ttgcnaaat  tcccaaaac  720
tcttttttta  aggcgaacac  cctantccct  naaaaaaaa  aaaaacttg  cnoctattct  780
ggaaaaggcc  caccctttaa  caggccggaa  gaaatttttc  attttttttt  ttttttaagg  840
ccttttttaa  attgaacctc  atttccccc  ccccaaaaa  aacccccgg  ggggggggt  900
ttccaaaaac  naattccctt  ccccaaaaac  aaaaacccc  cttttttccc  ttcccccctt  960
ttcttttaat  tagggagaga  taaagccccc  caatttccc  ccttgatama  gttcccccac  1020
ccacacattt  ccaaaacttt  ttccaaacca  ggaaccccc  ctttttttgg  gtcagattaa  1080
nccactcttc  aaacactttt  tcccaaaaa  attttaggg  agggaaaaaa  aactattttt  1140
slagan  1146

```

<210> 10

<211> 545

<212> DNA

<213> Homo sapien

<400> 10

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atttataggg  taccgggccc  ctggaggttg  accgttatcg  taagcttgat  atogaattcc  60
tgcagccagg  gggatccact  aytctatag  tcaggagaga  ccaacacact  tccgtatttt  120
tattgtctct  gattctcgag  ggcagtttct  ttctctgttt  gattatcgg  gatttccagg  180
cagactctgg  tctggaaagg  agactgtggg  cagcaagttt  agaggcgtga  ctgaagctca  240

```

```

caatgcacatc tgaagcgcctg aatcagctctt ctggttaccg agggcaacag ccgtgttttc 300
cttttgaggt cctttacagt ggtttacacg caoctgctga ggtgagtagc ccaagctcct
ggttagatggc tccacgtacc tgcacagtag caaaggcgtg cctgctgtna gtgttaccgt
taatatcctt acccattcgg agagcctgag tgaaggcgat caattcagcc ctcttgagct
gaggtgtttg ctggttaagg cctgaaccca caccacatct gtctccatgg taacagctgc
acagg 548

```

```

<210> 11
<211> 196
<212> DNA
<213> Homo sapien

```

```

<400> 11
tctccataggc tgggcacagt ggcctatacc tgtaatctcg aaggtttcag aggtccaggt 60
ggggggatcg cttgagcccc agatttcacg actagctcgg gtaccatagt gaggccctat
ctctacgaaa aatatcaaaa atgagctcgg tgtagtggca caaccagctt gaggaggagc 120
aatcgagcct agggga 180
196

```

```

<210> 12
<211> 388
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(388)
<223> n = A,T,C or G

```

```

<400> 12
tctccataggc ttgggggcct tgaactagaa ttccaggaaa ctgggattca agtccaaatg 60
tgaacacacac ttacatctgic gctctcaata aactgactct tctctattcc ctctctaatc 120
aataaataca ggaatacagat gctctgtgat agccaagtca gatactctaa aagagatcac 180
taagtgcacat taactatctg aatgtaaaa ctgggaacca ggtctccagg ctgggattca 240
actgacagca agagactctga acagctactac tctgaaaagg ccgaaggagg aatatgtctc 300
ctctaacgctt gaaggatggc tgggagaatg aatgctctgt ccccagctcc aaagtctact 360
taattalact cctttatagc ctggagaa 388

```

```

<210> 13
<211> 437
<212> DNA
<213> Homo sapien

```

```

<400> 13
tagtagttgc ctataatcat gttttcatt attttccat tttaattacc aattttgtt 60
tccctgaaa aatatgaggg aatatatgc aacaggaggg ccatgttcag ataattgac 120
caagatatat attttacat cagatgctct ttcttttcc gttttttcc ttctttttc 180
gggttggggg ccgaalgtac tagctttgtt tcaaggagga gttttggcag ttctgttagc 240
tttatgcact gctctatgct ccaggatct atttgcatt taaggaggtg cgtgggagac 300
tgagaggtct atttttccc tatttggga actacta 337

```

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<210> 14
<211> 571
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(571)

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<223> n = A,T,C or G

<400> 14

tagtagttgco	cttaccagtc	ctctacattt	atttaccoco	caactgaagc	gcataaactg	60
agtggttaagc	tgggtgtttt	tactgtaaac	aatataggaga	ctttgtctct	catcttaacc	120
aaatctaat	tctatattt	acgtctcagg	gttttttaacg	gttctctttt	aaactcttla	180
aaacagtttt	taagctgttt	ggaaacaagt	atrtttttctt	tctgtggcagc	tctttaaactt	240
ctagcaaat	tgtgtctggg	ggactgtctg	tcactgtttc	tccacagtgc	aaatcaaggc	300
ctttgcaacc	aagaaaaaaa	aatttttttg	ttttatttga	aatgtgaacg	gatataaggt	360
gtttggagcg	gtctgtgtat	ctagtcttaa	atggttttct	gcactctctt	aaattgcact	420
tatgtggggg	gggttttttg	aatagaaggt	cttttctaac	aaagttaacg	ggacttttct	480
cttttggmaa	ctgagctaa	aagggctgnt	tttctgtgtg	gggtcagatg	aggctcacag	540
gaggtctctt	tcttagaggg	gggaactctc	a			571

<210> 15

<211> 548

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(548)

<223> n = A,T,C or G

<400> 15

tatatattta	ataacttaaa	tatatattga	tcacccaactg	gggtgataag	aaatagatga	60
taannagatt	tcacaaagc	atacaaccaa	agatctatct	caaaccaaat	tcactctgt	120
tcctccaccc	gcactgcaac	ttcacctctc	aaatgtctac	ctacccaact	tcactctctc	180
aagctcttgg	tgcgtgtctc	ctactctttt	tttttttttt	tttttttttt	agatggagtc	240
tgggtgtgtc	gcctcaggggt	ggagtcacat	ggacaaactc	caagtctaat	aaactctcgc	300
ctcccaaggt	actgtgactc	tcctgttttc	gccttccacg	tactgtgggc	tactgtgtgt	360
catctccatg	ctctgttaact	ctttttttgt	ttttgggttg	agatgggggt	tttaactgtt	420
ggccagtgat	gtttgcacat	cttgactctc	agtgatctac	ccactccagg	ctctccaaag	480
gtatggatta	cagcatatag	caactgtgtc	cagactctgt	gcattgtctc	ttctctaggc	540
aaactacta						548

<210> 16

<211> 538

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(538)

<223> n = A,T,C or G

<400> 16

tctcgttatg	caatgcagga	ctattctaat	gggtacttccg	ctattctctc	ttttgatggc	60
gcactccagc	ctatctctca	agatgagtat	ttagaagaga	ttgattttag	gatagaccaa	120
gcttggttaag	actctgactc	cacgaacttg	ttacagagtg	atggtattat	gcactgttat	180
ctttggagga	gatttatcag	tgatttatct	aaaggggact	acttaacttc	agatatctct	240
ggttttagctc	atgtagtat	agaaatagaa	caggaagaga	ctataaatga	agatgtatca	300
caactctgla	ctgaagagcc	tatagttaga	aatgaattag	ctgcacttat	tactctctca	360
ctatagactt	ttctctgaga	cttttatatt	cagccatoga	catagactta	ctgtatgggc	420
aaactctcga	ctaatagaaa	ctgggttggg	gggtattgat	gaatctatcc	ncngtaaat	480
tggatatctac	aaatatatac	tcatgttgcg	ttggtatgat	gaatctctaa	cttgggaaaa	540
gtaactcttg	agctactagt	aaactctctt	tttgagatgc	aaatttttct	tttgggtttt	600
ctctctctct	actttacagg	tattggagaa	tacgggga			638

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<210> 17
<211> 266
<212> DNA
<213> Homo sapien

<400> 17
aatgatggat gtgcgcyyag gaggagggac ttatctgatg ctgggtgtcc tgttcgtgat      60
gtgcgcyyag attgggtcgt ttatctcaaa caccggcaag ggggtgttga tgggagntat      120
tgcccttagc gggcggaagt caatgggggt ctacccttat ctttttgcca tgggtggtgg      180
gatggggagt tggggggcgt ttacgacccc ggtctctctg caggttaaca ccttgytgit      240
tggccttggc aagtaactat ttaggatatt tgcacaaata ggcgtg
                                     266

<210> 18
<211> 262
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1) ... (262)
<223> n = A,T,C or G

<400> 18
tgggtactag caggcccttc ttctcaattt ctctcgtcac tacccttggt tagtatctca      60
aagccttaca tttttataac ctctcccttg gtctgtcttt tgaatttctt gctctgtatc      120
ctatcacacc ataacgtcaa gtaaacattt cttaagtggt gtatctgtca tgcctactct      180
gtgcaaaaga atagtttcca ttacgtcttt caataaatc gpatttgttc tttctatctn      240
ttaccttcca cctatgacg aa
                                     262

<210> 19
<211> 261
<212> DNA
<213> Homo sapien

<400> 19
tgggtactag caaagccagt ggtttgagct ctctcctgtg taacctctca aaccagggcc      60
atttatgata atgtgttgga ggttttttat tctaaccttg taccctatga aatttcttat      120
aacctcgaga tctattcttc tacccttcaa caataaaat atctctattt taacagctca      180
atttgcgttg ttatgttaaga gtgttttaag agaggggtata aggtataaat caacagctca      240
cgttctcttg cctatgacg a
                                     261

<210> 20
<211> 294
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1) ... (294)
<223> n = A,T,C or G

<400> 20
tacaacgagg gtagcttggt aaantcggac atgaagccac cgttggctct ttgttcggag      60
cgtataggcc cggcagacaa gggghacggt tgcacggagt gcaagugag cggagattct      120
tcggactgag tatgaattct gttgtgaaaa tactcggccg cttcgttnga cgaactcggg      180
tgcaaatctt agaatctctt acgatcgaag ctctctgtgg cgaagatcgg ggtcaagtcc      240
gcccacaga atctatggtt gaggccgagt ctgacccaga agnncctggt tgtn
                                     294

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<210> 21
<211> 206
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(206)
<223> n = A,T,C or G

<400> 21
ttggttaagg gcatggagcg agacgacgtg cgtttggctg aaactcttct attgattcgt
atcaatgaat aggaataatt ccaaaaggagg aatgtctctgt tgcctgcacg tttttnigt
gttctaatgg aaaaagcaca gagctcttca gaataattgm attnagttca ggtctctctg
caactagtcg ncttgcnang atcttctat
60
120
180
206

<210> 32
<211> 347
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(347)
<223> n = A,T,C or G

<400> 32
nccnttgagc tgagtgattg agatntgtta tggttgtlaa ggtgattcag gcggattagg
gtgggggggt acnccggcag gggctctccg acaggccacg aggtatttgg gcaggtacag
ngtggcctat gctgcactat atgctaagga agcggagcag tggaaagngg atcaggctac
ggcgctggag ctttccacgg tccatgaatt gngatggctg tcttagcggt ctgttgucac
gcgtgatggt accgtggctg gacattgat ttcgtgtgac aaggtgg
60
120
180
246
287

<210> 23
<211> 264
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

<400> 23
ttgggttaag gtagcagcgg gaaggcattg agaggtctca gctggtctct gctacagact
gggcacagct gtggcggggg atggtggaga atcgaaagcg gaactctctg aggtctctcg
nagttaacta nongtccagg aggaaggtct tctcttagtg taggaagcag gggggagaga
gactactctt atggctmacc tccc
60
120
180
204

<210> 24
<211> 266
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(266)

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<223> n = A, T, C or G

<400> 24

tgagcttggtc	aggagaggggt	agagtggtgac	cattgagggg	atattcaaaa	atatctatttt	60
gtccataaagt	atagttgctg	agtttttttt	tgaacacatga	gttatattgg	agttctatttt	120
ttaactttcc	atccgtatgg	acacgtttaga	ctttattttt	gttaattgatt	actctctttta	180
ttaatttgga	tttgagaaat	tgtgttttat	tatatcaatt	tctgtatttt	gttgagtttg	240
acattataga	ttagtatttg	cccc				264

<210> 25

<211> 376

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(376)

<223> n = A, T, C or G

<400> 25

ttacaaagag	gggaacttcc	gtctctacaa	aaattaaaa	attagccagg	tgtgttggtg	60
tgaacccgca	atccccgcta	cttgagggtt	tggagaccaa	gaatcaccta	aatgtgggag	120
gtcaaggttg	catagagtcac	gattgttgca	ctggactcca	gcctgggtga	cgagccggag	180
ccctgcctca	aaagaaanaa	aatagggaat	ttagaattcc	tgtgtgtggt	gcacagcaat	240
ctgactctat	ccccccctg	caggcaaaac	ttagtcagac	tangtccaa	agctgtcttt	300
tctggaggca	gaagttingg	attccatcca	gtctcaaggc	ccactctgca	cnagccattc	360
gtctctctga	tgtaac					376

<210> 26

<211> 372

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(372)

<223> n = A, T, C or G

<400> 26

ttacaaagag	gggaacttcc	gtctctacaa	aaattaaaa	attagccagg	tgtgttggtg	60
tgaacccgca	atccccgcta	cttgagggtt	tggagaccaa	gaatcaccta	aatgtgggag	120
gtcaaggttg	catagagtcac	gattgttgca	ctggactcca	gcctgggtga	cgagccggag	180
ccctgcctca	aaagaaanaa	aatagggaat	ttagaattcc	tgtgtgtggt	gcacagcaat	240
ctgactctat	ccccccctg	caggcaaaac	ttagtcagac	tangtccaa	agctgtcttt	300
tctggaggca	gaagttingg	attccatcca	gtctcaaggc	ccactctgca	cnagccattc	360
gtctctctga	tgtaac					372

<210> 27

<211> 477

<212> DNA

<213> Homo sapien

<400> 27

ctctgtccac	atctcaaggt	tttatttatt	ttgtgggttt	tcagggtgac	taagtcttcc	60
ctctactctga	aaagagaggt	tgtataaagg	tgcacaggaa	atcatttttt	taagtgaata	120
tgtataatag	ggtctgtgct	tattataaact	ggagcatttt	tgtctctctg	ttttctagag	180
taactcttta	aagtcacact	ccccatgggt	gaataaaaaa	tgaaggttat	ttgttctacc	240
tttaaggaga	ctcgagggtt	tctctctgaa	aagggagtat	ggatcactcc	tttaattaat	300

atgaatattgg	ttggtctctct	gggttaagaa	attcccaact	cagtgtgcty	aaattccact	360
gactttttct	gggaaaaaat	agtcgaatct	gtccatttgg	cccaaaaaar	acatgttact	420
attcaaatgt	attcaaaagc	aaatctcttc	agagctctca	gatttggtgt	gacagaaa	477

<210> 28

<211> 438

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(438)

<223> n = A,T,C or G

<400> 28

tcctcaact	cttgactgtc	aaaaacottn	taggtatct	ctaaaagctg	actgggtattc	60
attccagcan	aattccctcta	gtttttggag	ttccctttta	ctatctgggg	ctgctctggc	120
cccaaatgcc	aaataagag	catggctatt	ttcggggggt	gacaggtcaa	aagggggtgta	180
aattccgttaa	gctcctctga	ggtgctctaa	aaacactctc	ggtgactcat	catgccccctg	240
gacgacttca	atcgctctgg	acacgtttat	aggtttctgg	gacgtccct	gaataccccc	300
gaggagctac	cgttggaact	cgtaaaaagt	tcctccctca	attggaact	ttgggtctcca	360
attgggtccc	aattgggtct	ctaatcacca	ttctcttagc	ttctctctcc	ggaactatgg	420
ttggtgtgag	gttgagaa					438

<210> 29

<211> 620

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(620)

<223> n = A,T,C or G

<400> 29

aagaggggtac	cagcccccaag	cottgaacac	ttccataggg	gtccaaagct	gtgggtgccc	60
agaagctcaaa	aatttgagtt	tgggtacctn	agcctagatt	tcagaggtata	tcagagcaaa	120
ctctcaactct	agctattccg	ccaaaagttt	actaaagggg	tgagcttttc	ccggcaaaac	180
ttctcaagga	angtccagaa	gagaaatgtg	ggtttggagc	ccccaaaagc	aattccctct	240
agaaacacgc	ctaatgaase	tgttgaaga	tggccactgl	ctctccagaa	ccagaatgat	300
agaaacacaa	aaactttatg	ccatattgac	tataaaacct	acagacactc	aatgcacagc	360
ccatgaaaaa	aaaactbaga	agaaagcctg	noctacaaat	gcacacggag	ccagactgcg	420
ccgggcacatg	gaagccacag	tatttatctn	atgtgacctg	gatgttgaag	catggaatcc	480
aaagaaacac	ttttaaatct	tccacggttt	atgtgctgac	ctattaatatt	ccagaaactaa	540
atccagggcct	gtgaacttct	tgotttggac	attcccccct	tttggaatgg	ctattttttt	600
ccatgtgctg	ctccctctta					620

<210> 30

<211> 100

<212> DNA

<213> Homo sapien

<400> 30

ttcaacagag	ggggtcaatg	tostaactgt	cccaataaaa	caatctcttc	tttttttttt	60
tttttttttt	tttttttttt	tttttttttt	tttttttttt			100

<210> 31

<211> 762

12

<212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)... (762)
 <223> n = A, T, C or G

<400> 31
 tagtctatgc ggcggacaga ggcgaattaa atgggaagtt gacchaggga atttctacac 60
 acactctctc tgaagagaga aagaaaagag ggcggaaaga gggttaggatt tcaatttcaa 120
 gagtcaagta attagggagc agagatttag acagcagtag gcaacccatg atcaaaacca 180
 tggacaaagt cctgttttag taactggcag acatgacatc gctcagggtt tgaactctct 240
 ctgccctaaa agatgggaga gcaggagctgc catccacatc aacacggtgc caagaagag 300
 tctcagggag aagagggtat caaaaaaaac gatttctaac gggagaggaa tcaaaccaaa 360
 aatttagatt ttctcttaca tatctataat atccagatat ttaccacatt attccagagg 420
 tggctcaagt cctgtggggt tgaagatgg tgaaaattt tgtctcaat taactctgca 480
 tctcaattc tgaaglatat cagaatggga caggcaatgt ttgctcacc aactggggcac 540
 agacccaatt ggttctgtgc cgaagagaga gaagcagaa agacatgaag gatgcttaag 600
 gggggtkagg aaagccaaat tggtaatafc tttctcact gctgtgttc cngaatcttc 660
 cnotgagaga attcttaaaa ccttttgtga ggaatggcc ctttaacatg aaanttggtc 720
 cacttgcttc tagggngatg gaacacaaa ggtttatgat cc 762

<210> 32
 <211> 276
 <212> DNA
 <213> Homo sapien

<400> 32
 tagtctatgc gtgtattaac ctccctctcc taagtacaaa ccaagaggga agggcgtgtt 60
 attaccacac ccatcttaca gatgcatcaa taactgacga gaagtgaagt gaotctggca 120
 ccacacacag aattggcag agttagatct gaacccatg agtctgtgtc gcaatttcaa 180
 tcaacgaaia cctctttcaa gaaacgtgtg ctgaalgaat gcatggttaa atcagtctct 240
 acfcaactgc ttgtcctaga tctccgcact agacta 276

<210> 33
 <211> 477
 <212> DNA
 <213> Homo sapien

<400> 33
 tagtagttgc caaattattg aaaaattcac cagagatgat tgaacattt ttggaaccaa 60
 aaacaaataa agcaaaaagg taactaaaa atacttttg aotcctgita ttactctatc 120
 aaacattttt tcccgtaaga tctcctgctt gttagtgtat ttggtgtata ttacactctt 180
 tagctattat ttttttctca cttttcaat agaaagtcac tatgtattta gcaacatgt 240
 tgcctcattt tctatttttt ttttttagg aaaaatttga tgcctatgaa caaaaacatc 300
 cagacccatt attttttttt ccccaagaaat ctgaaaattg aaggggacag aggaagttt 360
 tcccttaaaa aatttgttaa tatgtcagtt ttatgtttaa aaatgcacaa acaataagaa 420
 aatttgtttt acttgagctg ctgattttaa gaagtattat ctcaagggaca actacta 477

<210> 34
 <211> 531
 <212> DNA
 <213> Homo sapien

<400> 34
 tagtagttgc caattcagat gatcagaat gctgctttcc taagatttgt ttgtttaac 60
 cgaatgcctc tgggaacttt ggcagtgaga agcaaaaagg aagaggttaa tgcctatat 120

atctatctat	atctaatgaa	agtaaaatgt	atctgtctat	atacttctta	gttatcagaa	189
tyagtttaagc	tctatgcoar	tgggtgtgtg	catattttta	tcagaaagata	aaagaaauto	249
tgggcatctt	tggaaatgiga	taactgtttt	tttaaaaatg	ttaaatatta	tttogatatt	309
tgtctaaagaa	ooggaatgtt	cttaaaaatt	actaaaadag	tatttgtttga	ggaaagagaa	369
actgtactgt	tigcoattat	tacagtorgta	caatgtgatg	tcaagtcaac	aatctctcta	429
ggcatcagta	tccactaat	agcttttaac	attttgaggg	ggaaatttgc	agcatctta	489
ggcctgacat	ctgggaagag	ctcagatcca	actatgtctc	cttgcctgtt	gatttctttt	549
aaatatgtt	gocgtgtgtc	acttttaagc	cacagccctg	cttaaaagcc	agcagagaa	609
agcaccocga	caattctata	ggcaactact	a			631

<210> 35

<211> 376

<212> DNA

<213> Homo sapien

<400> 35

taagtgtgtg	carcoactat	taagaaaggg	tcgttatcaa	tgacttatit	ggaggtgata	60
tgctttctct	caaaacccat	ttatcgtaat	ttcaccaagtc	ttggatcaat	cttggctttcc	120
actgatccaa	tgaacccatc	tgggagagaa	catgtcaacag	ttttctgttg	taaaacataa	180
aggtttatct	gctaaagctg	catcttatgc	ttagtatttt	tttttttaag	tgggggaatg	240
ctggagatcc	atittgttar	tcactagata	cttgggata	acttgacac	gtctctcttt	300
tttgcctttt	aaatgtatc	atcatgcttt	tgaacaaaga	acacattagt	ctcactgctt	360
tacataagct	tgtctgttac	gctcgtgtgt	tgaaggaat	acttttgcc	tcaggttcc	420
aaagatgggg	aaagtgttcc	cttatgtttc	gtatgtttca	ataaagatt	gcacggggcc	480
gggtactatg	gtctgcactg	taactccagg	actttgggaa	gttgagggct	gcgggtctctg	540
ttagggtcag	tgttcgaaan	cagcttgggc	aaactacta			600

<210> 36

<211> 583

<212> DNA

<213> Homo sapien

<400> 36

taagtgtttg	ctgttaaccc	agcaactcag	gaggttgggg	caagggaactc	agttgaactt	60
gggagagaga	agttgttaatt	agcaagatgc	gaaactatgc	acttcacgct	gggcaaacag	120
agtgaagctc	catctcaaaa	acaaaaaaaa	gaaaaagaaa	agaaagggaa	aaacgctata	180
aaacccagcca	aaacaaatg	atcattctct	taataagcca	gaataattta	atgtgtttat	240
ttaatcaaa	agctgaatc	ttctgattta	ttggtgaaa	tacacatgta	gttaattttg	300
ggtttctact	tgggtgaacg	tttgatgttc	ccaggtttta	aaatgtttta	caagggaaat	360
ggtgtatana	gaactctata	aactactaaa	ataaaataa	ataaaatgg	ataaggtcta	420
tgaatggaat	ttttgtgtaa	tttaaaatct	tgaagtcaat	ttggatgtct	ataaggtctc	480
tgttaatttc	catagagaaa	aggttatgat	atggggaaac	tgtttgtgga	aaatgcggaa	540
tgtttctcat	ctgtaaatg	ctagtatctc	agggcaacta	cta		600

<210> 37

<211> 716

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(716)

<223> n = A,T,C or G

<400> 37

gctctactag	tcacttggat	tctatccatg	gcagctaaag	ctttctgaat	ggattctact	60
gctttcttgt	tccttaactc	agacacttat	atctgtttat	gttcacaggc	agggcaatgt	120
ttagtgaaaa	caattctaaa	ttttttatit	tgcattttta	tgtataattc	cgtcacactc	180

cagcagggtt	cctcggagaa	taagygagaa	tacagctaaa	gcacattgtc	ctgcttctct	240
aaagcctat	ggtatgcaga	accatttcaa	taagtaaaa	ggaaagatc	taaccaggta	300
gaatggacaa	aaactgatat	gaaasatca	ggagagaga	ggaaacata	tttcctgagt	360
ccatgaatgt	acaaggtttt	ttatattcat	attttatgta	aggtctgcaa	aaacagggtg	420
agtaattcac	atttatccaa	ttatataat	aaggaaacty	aggtctaat	tgaaactttt	480
aatgcataga	ttttatagtt	agacpatgtt	caggtcccta	tgtttactt	actagctgtc	540
tgaatatgag	aaatattttt	tgtttttt	ttggcatcag	tatttttcat	tgcacaaata	600
agctaaagtt	atttagcaaa	cagtcagcat	agtcctgtgt	ccatagtagg	tgtcccaaac	660
atgattacno	taattatagg	tatttcaaaa	atccatata	ggcattgata	aaacgc	716

<210> 38
<211> 688
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(688)
<223> n = A,T,C or G

<400> 38						
ttctgtcac	atatcatccc	accttaattg	tbaatcagaa	aaacttttaa	tgaaatatca	60
ttttttttta	ccaggtctcc	acpaggaaac	tgaaggtgta	ttttttttta	ccttaaaaaa	120
aaaaaaaa	accacacaaa	ccaaacagaa	ttaacagcaa	agagttctaa	aaatttttaa	180
ttttctttac	aaatgtcttt	cagagaaaca	taattcttaa	gctctgttaa	ttttgtcttt	240
aaagagaaa	ctttatgaaa	agttgtactt	ggaattttgt	ggattttttt	ttttgtctaa	300
ttttccctta	tttttttccc	aaacttaatt	taagttttgt	tgaaacatcc	ccctgtttta	360
agtttaaaaa	atgtatagga	agaaataat	gataagatga	ttatcatcat	atgcatttca	420
tgttagggcc	ttacaaactt	cttgcaattc	gaaacatctc	tttagagaga	ggagagagag	480
gcccaggggt	accatccagg	tgcctttagg	acagagatgt	cagaagtggc	actgtttgaa	540
tttagaaac	catgtgtgaa	tgtttttagg	cttgggttgt	ttgcaacaaa	gaagtgcttc	600
cgaaacattt	ctttccattt	tgaataaag	ggtgggttga	tggttaaggt	gggttagaaa	660
acgaagaaan	tgaaattctg	cccttttc				688

<210> 39
<211> 585
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(585)
<223> n = A,T,C or G

<400> 39						
taagtagttc	cgccnaacct	aaatttgga	agcatgatgt	ctaggaaaca	taataaata	60
gggtatgct	atgtgctaaa	gagagatgtt	agcattttaa	gtcatanttt	ttatgtattt	120
tgaaacattg	ataatccctc	ataatccaca	actgtattcc	aaagtattac	taataaaag	180
tttagccagg	gggttgagg	gggttgagaa	ccctgtatcc	caagacattt	ggagagccag	240
ggcagcggga	taagagagtc	ggaggttcaa	gacatccctg	gatacaagag	tgaaagtcca	300
ttcttatctc	aaataagaaa	aaattatccc	ggcgtggttg	aggggccttg	taattccagc	360
taactccggg	gcttgagcag	gagaaatggc	tgaaacccag	acagagagct	tgactgtgtc	420
aaacattcac	ccactgtccc	ccagcctggc	ggacaggaac	aaagtccag	taactcaaaa	480
agaaataatc	taactaatat	tttcaattta	tttttaatta	caagagcaac	ccctatggta	540
aaactttcac	atttatctca	cccaactcct	ataggagaaa	actaa		585

<210> 40
<211> 473

<212> DNA

<213> Homo sapien

<400> 40

ctctgcccaca	ccactcttag	aagctctgaa	agagatttgt	ctttcaatat	ctttcaatat	60
caactgggaa	tttatggacc	aaattgacat	tttggactgt	ttttccaaa	aaagtccggg	120
gaatttcage	acactggagt	gggaatttct	tatcccagaa	gacccaccaa	tttcatattt	180
atttaagatt	gattccctac	tccgttttca	aggagaatcc	ctgcagctct	cttcaaggta	240
gacaaactac	tccctatttt	ttttccacaa	ttgtgggatt	ggacttttaa	aggtgactct	300
aaaaaaacag	agacaaata	tgctccagtt	gtattaaagc	cggaaccata	ttatccatat	360
cactcaaaaa	aattgattcc	tgctgacatt	tgggcaactt	ctcttttcaa	cttagggaaa	420
aacttagtca	ccctgaacac	ccccaaata	ataaaactt	gtagtgtgtg	acaga	475

<210> 41

<211> 423

<212> DNA

<213> Homo sapien

<400> 41

taagagggtta	ctcgggttaa	gaacgtagcc	acactctagag	cttagagaa	ctcgggttag	60
gaaacaaatc	taagttattt	taagggtata	ggttaacattt	aaagctaggg	ctagctgaca	120
ttatttagaa	agaaacata	cgagagata	agggcaagg	actagagaaa	gaggacactt	180
antatttagt	gaccccttcc	attcttggtta	aaactagtaa	cttttaagtt	agcttcaagg	240
aaagattttg	ccatgtatta	gttgtaaaac	gttagttctc	ctgggtttat	attactaatt	300
ttgttttaag	atctcttgta	gtgctttta	aaagttaatt	tattctaaac	gctctcaaac	360
atttagtcat	gttaaatgtc	acaaataact	tacactttgt	tgtagatggc	tgtaacctct	420
cta						423

<210> 42

<211> 527

<212> DNA

<213> Homo sapien

<220>

<221> Misc_feature

<222> {1...{527}}

<223> n = A,T,C or G

<400> 42

tctccaggcc	taattgttgt	gtttctgtca	aaataaaag	ttaaaatttt	taaaaataga	60
aaaaagctta	tayaataaga	atactagaaa	agaaataatt	tttgtacatt	tgacaaatga	120
gtttatgttt	taagctaaat	gttattacaa	agagagccaa	aaggttttaa	aaattcaaac	180
gtttgttaag	ttacagtacc	cttatgttta	ttataaatt	agaaagaaa	aaattttttt	240
tataattgta	gttgagctca	agaaatacgt	attataaag	ctcggagcgt	ttcaataatg	300
tctagagcct	ctcaattcac	tcaatgacac	acaaagagca	acttcaagtc	gtgaagcttc	360
acttctgtgt	aagtgcccta	tcaaggtgca	caatttatct	tacagtattt	ttacgttacc	420
ttctctatgt	ttccataagt	ttcgataaac	aaataccact	gggtactatn	gcacacaggg	480
taattctagt	aaacagcctt	gtataactct	ggttaaccta	gngagaa		527

<210> 43

<211> 331

<212> DNA

<213> Homo sapien

<600> 43

tcttaacatt	agttaggaaa	ctctcaatat	ctcgggcact	atttttaggt	tactacattt	60
gtcggccttc	tttaagaaaa	aaataaagag	aaataagaaa	ttttccaaa	gtttctcttc	120
ctctagtgtg	aaataatagg	aaactatgtt	tttaattttg	tgctatttca	gactacaaat	180

tcacacacatt	gtaacacatta	agctctctgt	caatccctgt	ggagagagat	tcattctgat	245
attacaggtt	caacagaggt	tgtaatatgt	tgcttggtac	acagagagac	agctcttacc	305
ttctactcac	tcattatata	taactaatga	c			331

<210> 44
 <211> 592
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(592)
 <223> n = A,T,C or G

<400> 44						
ggcttagtag	ttgcacagaa	aaatacgtt	gattctctct	agagccacac	ccccacccc	60
ctgcttggtt	ctagacatt	acctagctc	aagtcaccag	agacccctag	aggttaggtt	120
cagagtgacc	cttagagaga	tgctctacac	kagaacagaa	ctgcttaggt	ttctcaattt	180
atctaacag	aaatctggag	aaagctctca	ggatgggata	tttaggggtg	gagctaatgg	240
ggagaggaat	atagagttgg	atcaggttgg	acttattgat	ttgacccccc	taagttagaga	300
ttctgctttt	gctgcttgac	ctcagggagt	taaaaaaggt	tttaattggt	ctaatagatt	360
cttctcttgg	ttagctgaaa	tatgataaaa	agctggccca	ctgtgagaaa	gctgggaatg	420
ctctgctctt	ctagctttaa	tgtagagaaa	gggtcccaaa	agtttaggga	gatttgagtg	480
ctggrakctg	cttggtcact	ttaggaccca	ccctccccc	ctggaggggt	ccagagata	540
ccctcttgac	caacgcttgg	cgaaatggat	tttgtgagg	ggcaactact	aa	592

<210> 45
 <211> 567
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(567)
 <223> n = A,T,C or G

<400> 45						
ggcttagtag	ttgcacatgc	gagtgcttgc	tcacagagag	ttgacaggg	ggatcttct	60
agattcaacg	gatttagatt	ttacacagaa	agagacccaa	ggcgggcccc	ggagattatg	120
ggttggttgg	ctttgaaag	atggcaatcc	tgtaggctca	gtcgaagag	cttctctgac	180
gaacatttgg	ttctcgggac	aacgctctct	aagatgcaca	ttggaaggg	tagcgtgtac	240
ttggagagac	ctgatagcgt	gtctcttgat	gctgttttgg	cttggacagt	gacaaaagat	300
atgcaaaagc	agtcacagac	agacgtctaa	cttctctgac	aaattattgt	agacctctac	360
ttctctctgt	aggaatgata	gcbaagggcg	gggactttaa	gactaagtg	gattgtactt	420
ggcgcagaga	tcacagggag	aaggaatgac	tggttagttt	tatcagggac	adactaatgc	480
cgaaattcag	ccactctggc	gcacttanta	attggaatcc	aatctggtag	cgacttgatg	540
caatctctga	gtttctctata	atgtcttc				567

<210> 46
 <211> 508
 <212> RNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(508)
 <223> n = A,T,C or G

```

<400> 46
gagcgaaaga cggaggggcag agnntaangg aganghaggg gagaggggcna aasaggcaac 60
gctttccccc ggggggtgccc attcaataag agaggtggag gacagggttc cagatggag 120
gggggaagggg ggcgaagcaat taatgtgagt agggccattca ttggcaccgg ttacgttaaat 180
ttaagcttcg gtttggtatg ttgtgggaat ttgtggagggg taanaatttc aacagagaaa 240
cagctatgag catgatagc ccaagctatt taagtgacat tatgaataa ctcaagttat 300
ggaatcaagt ttgtacccag ttggatccca ctagttaagg ccgccagttg ttggaattcg 360
gcttagtagt tgcgcacaa ttggatgctac ctaggctaga ataccctgag tccctccag 420
ctcaactcac atcaaatigt attttttctt cattagatgt cctcaggccc ttatttctg 480
tggacwatcg ataaattaat cctgataggc tgatagcagc agcttcaata ctgagagat 540
gttaattgtt cctccctcct atataacga ttgtcaattt aatggagcaa tctgtgagat 600
aatccctgaa ggcnaaggaa tgaactctga ggggtgagaa gtcagaaaca gttctcagct 660
ggaattgttg ggaaggtgta tatttatgat gttccagaag tgacacacata ttggaacata 720
cgaagccgca attccagcac cctggcgggc ttactaatg gatccagact cggtaacaa 780
cttgatgat agtttgagta tctatagtg caclaaatag cctggcgcta tcaagggtcat 840
agtggttttc ttgtgaaat ttttatccgc tcccaattcc ccccaacata agagacggga 900
cataaagt

```

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<210> 47
<211> 480
<212> DNA
<213> Homo sapien

<330>
<321> misc_feature
<322> (1)...(480)
<323> n = A,T,C or G

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<400> 47
tgcacaaag gaagtttta aatttccctt tgaggattct ttgtgatcat caaatccagt 60
gttttttaag gtgtttttct gtccaataac tctaacttta agccaacag tatatggag 120
cacagatata atattacaa gataaaagag gagttgatct aaggtaxag tatgtgggg 180
cttttaattc tggaaactag gtctccacat ttctttctgt gctgagggaa ttcttggag 240
cggggattct aaagtctctt ggaagaaagt ttgaaaacca cctggttgt ttccagtac 300
ttatttttaa aaagtagtg aaatttttga gaggaaaaag ggtctggttg agagaaagtc 360
cccccacccc ctttttttt tttagctgta aatagatcc ctatgttaa aaagagatt 420
attatttaac atgcacatar aacatgole tttagtggg syctccaten cctccctag 480

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<210> 48
<211> 591
<212> DNA
<213> Homo sapien

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<400> 48
aagagggtac cagatggant ttccgcttca ctagtatggt gtggctagtc gttttctgg 60
tggccaacat taagaacttc caactcaac gtctctggg gtccaaggg gattctccgc 120
gagggtgggt ggtgaatttc tgccttttct ttgcctggg atagataagc gcaatctatg 180
gtatgtttat aagaattctc tttaactaac cgaactctcc gatttaactg ccaggagact 240
gttttaacga gggagggggg attcagtaac ggaagtcttc gtccagatg ttccgatalg 300
tcgtgacat gttctcaac ttctctgtca ataaagtctg gaacttcaga accgtgaag 360
actccgaaac cgtccggttg cgtcgtgtgc ttgaattcca aaactctgat aacaaacagg 420
taacagatgc cgtctagga adcccggtat ctgggtctat ctgcatatg gtaacattta 480
aagcgaattc cagcaacatg cgggcgttga ctatgtgat ccaaatctcg taacaaagac 540
tgatgctaa ctgagttat tctatagtg cctcaaaata aactggcgtt 600

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<210> 49
<211> 454
<212> DNA

```


<213> Homo sapiens

<400> 49

aagggggtac	ctgcctttaa	atttaantgt	ctaaagaaac	tgaggagaga	ttaagagttt	40
gtgaggcyta	gtacacacaa	aatgtattta	ttacatccgt	ctcctttcta	gttgaaagga	120
aagaaagcta	ctatgggnaa	agggaggtta	aatactgaag	gaatttacta	aacaaatgtc	180
caaacagagc	ctttcttttt	tttttttttg	agacagagtc	ttagctcttc	accaaaggtc	240
gaatgaagwg	gtatgatctc	agttgaatgc	aactctatcc	tctaggttgc	aagggattct	300
catgootcag	oatctatgag	agutggagat	atagggcgat	gotacaaigc	aaggtatatt	360
tttatatttt	tattagagac	gggtgtgtgc	catgttggcc	agggcaggtc	tgaaactctg	420
ggtcttaget	gatatgaccc	acggtaacat	ctta			454

<210> 50

<211> 463

<212> DNA

<213> Homo sapiens

<400> 50

aagggggtac	caaaaaaag	aaaaaggaac	naaaagaaac	caacttgtat	aaggtcttct	60
gttcatacac	gctttttttt	tttaaatata	tggtgcacac	aaatgttttt	gcattcacac	120
caatttgttg	ttttgaatc	gtacatctta	aaggtatttg	tgcaaatcaa	tcaaatatga	180
atgcacagta	ggttttgttg	aatgacacag	ttatctacat	tctctgtgag	gagcactatg	240
gagactgttt	ggacatgcct	gtgtctatgt	agcgttgatg	tccggggggc	gtgtacatca	300
tgttaacgtg	gggtgggggt	tgcatgtgct	ggtgggggaa	tgggtgggtg	cccaatcagc	360
ccatctgcct	ctgcataagg	tattggggcg	ttgatccat	atagccatga	tgtgtgtggt	420
agcaactgtt	tatcattggc	tgggacagc	tgttaccctc	tta		463

<210> 51

<211> 393

<212> DNA

<213> Homo sapiens

<400> 51

cttcaaccta	ccaaagtgt	gggtattacg	gactgagcca	ccacgctcag	ctaaagcttc	60
tttttaacaa	ccctctaacg	gctctacac	agtgtatgag	ggctaaagag	cagtgcacatt	120
tgtattcaat	aatggaactt	agatttttta	attacaattt	cttctctcag	atgtttgtttc	180
aatattattt	aagagtaagg	acttacttga	aaatgcgctt	ctatttttga	aatcttcaatc	240
ttgcctcttc	ctatttgtct	gagcagcttg	acactaaag	tattttattt	acataaccta	300
ccctgagcta	ttacttttta	aaaggtctta	tactgtgaat	tgtattgtta	actgttaagc	360
cccaagatat	ttaatattct	catgatgtct	ctgaggttg			393

<210> 52

<211> 392

<212> DNA

<213> Homo sapiens

<400> 52

cttcaaccta	aatcaacatt	ggttaattgat	aaatctatca	cttaacattc	tgtataatag	60
gcaataatta	tctgagaaaa	aaaagtgttg	aaggttttaa	cttgccttct	tctcagagtc	120
ttagagctta	ttgtataaat	tcaaaagctg	aatcagtagt	atcagccgaa	gaactcaact	180
tatgtagaac	gttggtacca	tggatctaa	tccctgcctc	tccatcaaac	agtgatattg	240
ttatgtgtaa	acatctacca	cggttggtgt	tgttgccttc	attgtcaaa	gtaaaggtgc	300
aaatggagag	ataatgaaac	gtgtcttttt	ggtctctttt	caatcaatta	ctctgttttt	360
acaaagaggt	ctgtattccc	ctgttgaggt	tg			392

<210> 53

<211> 179

<212> DNA

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<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(175)
<223> n = A,T,C or G

<400> 53
ttgggtgat gctctctcag gctacagcgc agactggatt acagaaaggt gctgagaga 50
ttctagattc ctgtaaacct ctatagaaac ggagtcgcgc ctcaactgat gtageaatga 120
ctagttcagc atacagagac acnctgcct ccgcttctag aggaactgagt gacctgcac 175

<210> 54
<211> 112
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(112)
<223> n = A,T,C or G

<400> 54
ttgggtgat gctctctcag gctacatcat tatagaagca aagtagaaca atctngtttg 60
tgcattttcc cctaacacaa attcaaatga atggaagaca ttgggaagat at 112

<210> 55
<211> 225
<212> DNA
<213> Homo sapien

<400> 55
tgagcttcag ctctcagaaa ctcaatagat aatcaagga caacttaac agggattcc 60
aaggagatct atccaaatgc caataaact ataaagga attcagctc atcactarca 120
gagwatgca atttaaaac ataatagaca aacctatgt ccaactaga tagtaaaat 180
cttaaaagc tggtaaaac aagctttggt aaggaagag gacga 225

<210> 56
<211> 175
<212> DNA
<213> Homo sapien

<400> 56
gctcctcttg cctaacaa acattctcaa aaacttgta gactctcag cttctctcg 60
ttagtattgg gattttacc ctgctctata aagctgtat gtaaaaaa tgaagtggag 120
ggcctacac tggggtggg gagggtatc tagtcttgc agaaagagaa gctca 175

<210> 57
<211> 223
<212> DNA
<213> Homo sapien

<400> 57
agcatttcc caccatgga tgaatggatt ttgtaattct agctgttga ttttgtgaat 60
ttgttaatt ttgtgtttt ctgtgaaaca catcacctg atatgggag taaaggagtg 120
tcacatttgc tccatgicac tcccttata gccattactg tctgtttct tgaactcag 180
gttaggttct ggtctctct gctcacctgc aaaaaaaaa ana 223

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<210> 58
 <211> 211
 <212> DNA
 <213> Homo sapiens

 <400> 58
 gttcgaaggt gaacgtgttag gttagaggatc taccacatgg ggaactgtca aagacgaatt 60
 aactgacttg gatcaatcaa atgtgaatga ggaaacacct gaaggtgaag aacatcatcc 120
 agtggcagac acgcaaatc agggagatga agttagagag gtaaaagagg agggtcacaa 180
 agagutgact ttgatgggt ggtacatggc t 211

 <210> 59
 <211> 208
 <212> DNA
 <213> Homo sapiens

 <400> 59
 gctctctctg acttaccacc ttggcaacca taatcaacca tgtggcagg ttgcaagcc 60
 aggtcgaca cagggggact gctcgcacat acatcatgct gtgtgtgtg actgatggg 120
 ctgtgacgga tgtggaagc acacgtgagg ctgtgtgtgc tgcctcgacc ctgcaacatgt 180
 cagtgatcat tatgggtggt aatgggt 208

 <210> 60
 <211> 171
 <212> DNA
 <213> Homo sapiens

 <400> 60
 agcatttacc aacacatcat aatttatgt taacactcaa acttcttcaa taacacatc 60
 aacacatgac accagttggc aatagcttct tcttctttaa acctctttaga gtatttatg 120
 caatgcacac acatttttgc aactgaataa agttgttaag gcaagaggag c 171

 <210> 61
 <211> 134
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1) ... (134)
 <223> n = A, T, C or G

 <400> 61
 cgggtgaagc ctctcaggc ttgggtgtgc caactacat cactggcctc tcttcagga 60
 actggtagaa atgtctctaa gaaacacac acagctggt cagggtgggg tgggaacac 120
 caacatctc gggc 134

 <210> 62
 <211> 145
 <212> DNA
 <213> Homo sapiens

 <400> 62
 agagggtac tatgaaacag tatataaagg aagaagtga ctgagaggaa cttaacaa 60
 gccattaat aatcaagtga tagagtcaag gctcaacca ggtgtgagg attccaggtc 120
 caaagctccr taatggtaac ctctt 145

 <210> 63

<211> 297
 <212> DNA
 <213> Homo sapiens

<400> 63
 tgcactgaga ggaattcaca ggggttatgc caaagaacaa acbagtctct tgcagcctaa 69
 ctacatttgt tttyggctgc gaagcdaigt agagggcgct caggcagtag atggtccctc 120
 ccacgttcag cgcctatggt gtcaggtaaa gcahttggtc aggcaggcct cggttcaggt 180
 agtcggggcc acatcagctt cctggcaaaa ctlttgtagc tcggagagct tgtttttcac 240
 agcatatcca tacaatgtgg aatcggaggt cagttcagtt ggttaaggcan gagggcgc 297

<210> 64
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 64
 gcaactgagag gaattccaa tactatgttg aataggagtg gtgagagagg gactccttgt 69
 ctgtgtccgg ttctcaaaag gaatgcctcc agctttttgc caticagtag aatcttaaac 120
 aatgttttca cattttctgt ctgcctgttt tttctgtgtt ttgtgtggc tctctattct 180
 ccatttttag gacttaacct gtagggata cattctcttt aatgatact cacttttggc 240
 atcttttgt agactctact catagtgtga taagcautgt gttgttaary caagaggggc 300

<210> 65
 <211> 203
 <212> DNA
 <213> Homo sapiens

<400> 65
 gctctctctt gtttccaaa tcaacacgta tgttaagcaat ttatctgcct ttaactanga 69
 aanaagctgt atccacacaa ttaacacact cactctgaac gtccagggca aatcgcctct 120
 ctcatgggtc tctctgtctc agtctctgac ctctctcttt tcttagaaca tgcatttary 180
 tctatagaag tctctctcag tgc 263

<210> 66
 <211> 344
 <212> DNA
 <213> Homo sapiens

<400> 66
 taccggggacc ccttgcattga gaagcggaga ctacactctg agctcaaaty ctgttgccct 69
 tgcagccttg gtacagagag tctctgtgct gttggggtac ggtctctgga tgcacctctg 120
 caatggagag gtatagttgt gtgcctcttc tcaatgcctc gtccagggat cactggctgc 180
 caaacacaaa atgcctgttt tatttaagac atgaatttga agggaggaac acaactcaact 240
 gatgtgtctc gtacacatgg atatgtctac ataacgggt gtgtattgt aaaggttaac 300
 tccacccacc tcatgtgga actagcctca atgcagggt ccaa 344

<210> 67
 <211> 157
 <212> DNA
 <213> Homo sapiens

<400> 67
 gcaatgagag gaactctgta gggaggttga actggctgct agggaggggg aacaacaggg 69
 taacacagct gatagccatt ggtaggabaa tctgtgtgtt gaggagggac actacttata 120
 gaaagaggtt ggtatagac tgaggagga tcccccg 157

<210> 68

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<213> 137
<212> DNA
<213> Homo sapien

<400> 58
gcactgagag gaacttctag aaagtgaag cctagaccta aaataaata aaeatttaa 60
actcaggaga gacagccag caggtgggt cagcctgta atccagaaat tttagagagc 120
tgaggaggca tcccccg
210> 69
211> 137
212> DNA
213> Homo sapien

<400> 69
cgggtgagc ctactcaggc tgtattttga agactataga ctggacttct tatcaactga 60
agactcgggt aaactataga gtgtatttat ttctactctt caaatctcat ttcacatggt 120
gaagtctctc tcaagtgc
210> 70
211> 220
212> DNA
213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(220)
<223> n = A,T,C or G

<400> 70
agcatgttga gccagagcac gcaatctgaa tgaagtgtga ctcaagtaa atgtctacac 60
gctgcctggt ctgacatggc acacactcna gtggagggga cactctctgt cngcctacaa 120
cgagggaant ctkaatggaca ggttccaccc accaaactgc sagagggctca aaagylactx 180
cchgggtmya aggacmaag tggggytyca ynacacatct
210> 71
211> 353
212> DNA
213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(353)
<223> n = A,T,C or G

<400> 71
cgttaggggtc tctatccact gclaaacact aacactgggt aaacaggagc attttaaact 60
tccacnctaa atatgccaaag tgacttcaca tgtttatctt aaagtgtcc aaacgcnac 120
tgattttctc ccttaaacct glgagggagg gctgatttan cctgagtggt ctacagaaag 180
ttaggtgcaa ggtgcataat gaangtgac tggatataag cttctacaaag gcaatacctc 240
tcacumagg gcaantctgc tctccaaagt gcatttagca gtcctgnaa taattctgt 300
attacaaactc acgggggggg ggtggaatat ctantggana gnaagcccta aag 353

210> 72
211> 343
212> DNA
213> Homo sapien

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<400> 72
gcaactgagag gaacttccaa tacyatkatc agagtgaaca rgaarccyac agaacagag 60
aaaatgttiy caatctcttc atctgacaaa aggtatatat cgaatctata aagagatct 120
aaaacaaatt atgagaaaag aacaaacaa ctaacacaaa agtgggtgaa ggaacttpct 180
aaaggaagac atyaktctcg ccagttaaac yatgaaaaa agctatwa taactgawca 240
taagagaact gaacttccaa abctcaatgb gatccactct yayccagtt aagayggts 300
taattaaac atagggaac aacagatgt ggaacaggtg taa 360

```

<210> 73

<211> 321

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (11..321)

<223> n = A,T,C or G

```

<400> 73
gcaactgagag gaacttccaa gagagagaga gagtccacc ctgtacttgg ggaagagaa 60
agaagttagg aaagtcttgg gtctggaagc agcttctaa atcttttcat ttgcttcat 120
tcaaatgttc atgctctgaa aagtgccttc ctgtggggtt ctgttttctg agcttcaagt 180
ataactcttt tatcaatggg agtaccacag aaaaaaagt agcaactctt aaaaaggttg 240
cttgagttca gcttcaata ccatcttgaa atgacccaga gaaagagaga ttttgggttg 300
gagtgagtag agacccatac g 321

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<210> 74

<211> 321

<212> DNA

<213> Homo sapien

```

<400> 74
gcaactgagag gaacttccaa gagagagaga gagtccacc ctgtacttgg ggaagagaa 60
agaagttagg aaagtcttgg gtctggaagc agcttctaa atcttttcat ttgcttcat 120
tcaaatgttc atgctctgaa aagtgccttc ctgtggggtt ctgttttctg agcttcaagt 180
ataactcttt tatcaatggg agtaccacag aaaaaaagt agcaactctt aaaaaggttg 240
cttgagttca gcttcaata ccatcttgaa atgacccaga gaaagagaga ttttgggttg 300
gagtgagtag agacccatac g 321

```

<210> 75

<211> 317

<212> DNA

<213> Homo sapien

```

<400> 75
gcaactgagag gaacttccaa atgcaactgg aaatgcctct tcccaaggaa tgaagtctgg 60
aaactgaatt ctcaattcca atcctgattc aggtatttcc caactacac accctaaaga 120
agtcagataa ctttagcttc ctcaatgcaa aaatgagaa gaaagatct cctcctgaa 180
ttgtttttag gattagaaaa caactctgca tgcagttaga attcaattag taccacttt 240
tactctctc atttaacaaa ataggctttt tagtggttgg atttaagaca ccagaaatgg 300
gagtgagtag agacccat 317

```

<210> 76

<211> 244

<212> DNA

<213> Homo sapien

<400> 76

24

```

cgttagggta tatatccact cccctactg atcaaatctt attatttaa ttaattttat 60
cctactctaa gttctgggat acacgtgcag catgcytagg ttgttgcgat aggtataaac 120
tgcacatggt ggtttgcgcgc acacatcagt ccatcactta cattaggtat ttctcctaat 180
gctacccctc ccatagccgc ttacaccccc aacaggctct agtggtgcaa gttcctctcc 240
gtgc

```

```

<210> 77
<211> 254
<212> DNA
<213> Homo sapien

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<400> 77
cgttagggta tatatccact gaaatctgaa gcccaggagg aagagaaagca gtyctagtga 60
gatggcaagt tcatctacaa cactctttaa catttggttt agtttcaacc ttattttatg 120
gttaataaag gtaataatta ataactgttt attttaaggg atcccccaat ttgcataact 180
ctccttttgg agataccctt ttatctccag tgcaggtctg gctcaaatgt ataaamagaa 240
gttctctctc gtgc

```

```

<210> 78
<211> 355
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(355)
<223> n = A,T,C or G
<400> 78
ttcagaaacg gcaaacatga actgcaggag ggtggtagc atcatgatgt tgcgcgtggt 60
cggatgggac acgaagagcc arlgaaacac gtgcttactt ccttttgcct tgttgcagcc 120
ccagagggga cgcaggaccc ttatgacctt cagaactctt acacaggagg atggcactgg 180
attgactccc atggacaccc gagacacccc aacacacgaa atatccttat atgatgtag 240
tthcgttaga nggccccctt gtggaggaaa gctccatmag tgggtcactt ccaacaggat 300
gtcaacagtt tccgatggct gtgatgggaa tegtcttant taacctgtta tegan 355

```

```

<210> 79
<211> 406
<212> DNA
<213> Homo sapien

```

```

<400> 79
taagagggtc cccagcgaac ggttagtata atcagatagc attctatacg agtaatatgc 60
ctgctattcg aagtgtaact ggcagggaaa atttccgggt gctcaatgac atgactgtga 120
cccaggtgac agctaggagt tgcctttctc agcatcaag agactgagtc aagttgttcc 180
ctaaagtcaa acagagacac cagctctgac attctgatts gaattgcact gttaaggaa 240
gggaactctg tgcattagac tggcagcttt gtggcaagtg aatttgcctg taacaagccc 300
gattttttaa aattttatat gtaataatg tgtgtgtgtg tgtgtgata tatatatata 360
tgtacagtta tctaaagtta tttaaaagtt gtttggtaaa ctctta 406

```

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<210> 80
<211> 327
<212> DNA
<213> Homo sapien

```

```

<400> 80
tttttttttt ttactctggc taagctctat cctttttgta gtacatcata ggcagacttt 60
agggtctagg tgaatgttaa taagagggat gacataaaca ttagtggcag gttagtgtgt 120

```

tgtagggntc	atggtagggg	tcaaaaggag	gcaatttcta	gatacaataa	taagaaggta	180
atagctacta	agaagaattt	tctggagaaa	gggacggggg	cgggggatat	agggtagaag	240
cgcgcctcgt	azgggggtga	tctttctatg	tacgggttga	gttggtgtag	tcaaatgtta	300
ataattatta	gtagttagcc	taggaga				327

<210> 81
 <211> 318
 <212> DNA
 <213> Homo sapien

tagtctatgc	ggtcgattcg	gcaatccatt	abtttgttga	ttttgtcatg	tgttttggca	60
attgcatctta	taattttatta	tgcatttttg	cttgcattct	ctaatgcatg	gttatatact	120
catgtctttt	atgtttttgc	tgcataaagc	tctttataga	gcccatttgc	cacagggatt	180
caataaatat	taacacagtc	tacattttat	tgttgaatat	tgcattatct	ctgtactgaa	240
agcattatga	gttacaagag	cagttggagc	gaatgaaaag	caattattcc	aacaggtatc	300
atgattggcc	ataactata					318

<210> 82
 <211> 338
 <212> DNA
 <213> Homo sapien

tcttcaacct	ctactccacc	taataagatt	ttgatgactt	ctagaagacc	tcgtcaacct	60
cgtctctacc	ccactattta	acctaactgg	agaactctct	gtgtagttaa	cuagcttctc	120
ctgtctcaat	atcctctctc	taacttaacg	actcaaatca	ctagttaacc	cccttatctc	180
actctaatca	tttacaacaa	caaatatggg	ctctctcaac	caacaaatta	acacataaaa	240
acactctatc	acagagaaac	acacactcat	gttctatcac	ctactcccca	ttctctctct	300
atcctctaac	cccgaaatca	ttaacgggtt	ttctctct			338

<210> 83
 <211> 111
 <212> DNA
 <213> Homo sapien

agcactctac	ctccctctca	caaaaaaaac	aaaaaaaag	aaaaaatcca	aggtataaaa	60
atagactttg	aaacaaaagg	aacattttgc	ggccttgagg	ggatctaccg	g	111

<210> 84
 <211> 224
 <212> DNA
 <213> Homo sapien

tgggttgatg	ctccctcagg	caaaagagag	aaagcttcag	acctcttaaa	catcttcaaa	60
aaagaaagaa	ggagaaaaaa	gggcctctac	cccttctcga	aggtctgggg	aggaagaaat	120
tgggttgatg	ctccagagttg	cggacaacac	ctttgatgac	aaagaggttg	cagccggaga	180
ctggggtagg	ggagccaact	aggtttttaa	gttctctcca	gtgc		224

<210> 85
 <211> 348
 <212> DNA
 <213> Homo sapien

gacttgagag	gaacttcgtt	ggaaacgggt	ttttttcatg	taagggttga	agaagaattt	60
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ctcagtaact	tocttctgtt	gtgtgtatc	aactcaccsa	gttgacagat	cotttaccsa	126
gagcagaact	glaacactct	twtgtggaa	tttgcagtg	gagatttcag	acgtttttaa	186
glaaaaggtt	gaaagggaaa	tatcttcta	taaaaactg	acagattgat	actcagaacc	246
tocttttga	tggtgtgtt	caactcagag	agtttaact	ttttttct	agaagaggt	306
aggaacact	ctgtttgaa	agtctgaag	tggttagaga	cactacag		366

<210> 86
 <211> 293
 <212> DNA
 <213> Homo sapien

gcactgagag	gaacttcyrt	gtgtgtktg	yaltaactc	acagagttga	aswramitt	60
acabagwka	ggcttkaaa	cactctttt	gtmgaaty	caagwgaka	tttzzccrc	120
tttggggyw	wyaktmgaw	aggrwatct	ttcwyatma	amctgacag	aaatctctc	180
akaaetrry	ytgtgaugw	tgcttcaac	tccagagkt	kaacmtyct	kytsatrgag	240
cahttkgaa	actctatct	tttggatct	gcaagtggat	agagacccta	acg	300

<210> 87
 <211> 10
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

<400> 87	10
ctctaggt	

<210> 88
 <211> 10
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

<400> 88	10
agtagtrgc	

<210> 89
 <211> 11
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

<400> 89	11
ttcgtttatg c	

<210> 90
 <211> 16
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

<400> 90
 tggtaaaagg 10
 <210> 91
 <211> 10
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Primer for amplification from breast tumor cDNA
 <400> 91
 tgggttaag 10
 <210> 92
 <211> 10
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Primer for amplification from breast tumor cDNA
 <400> 92
 tacaacagg 10
 <210> 93
 <211> 10
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Primer for amplification from breast tumor cDNA
 <400> 93
 tggattggtc 10
 <210> 94
 <211> 10
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Primer for amplification from breast tumor cDNA
 <400> 94
 attctacac 10
 <210> 95
 <211> 10
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Primer for amplification from breast tumor cDNA
 <400> 95
 tttaggtac 10

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<210> 96
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 96
ggagacgaatc 10

<210> 97
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 97
tggatcagg 10

<210> 98
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 98
ggctactcagg 10

<210> 99
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 99
agtctatgcy 10

<210> 100
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 100
ctatccatgg 10

<210> 101
<211> 10

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<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 101
tctgtccaca 10

<210> 102
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<223> Predicted Th Motifs (B-cell epitopes)

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<222> 131...122

<223> Kaa = Any Amino Acid

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aaglyabggg	attacaggtg	tgtatcaaca	caacccagct	atttatagt	atatataatc	8760
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gatgtctcgc	tacttgtctc	tgttaactaa	tgtgttcaag	ctgaacacag	agacactatt	9000
agttaktgag	gaatttaaac	aaattttagt	gggtcaaaa	ctcatattat	tatgtatgtg	9060
gattctccctg	gtcaggttcg	gatttcaaac	agggcacaag	gttgcacac	ctgtctctgt	9120
ctatgactgc	tgggtccagc	acaggagact	caaaacctga	gttttaggac	acttttagag	9180
cttgttccct	ccactctgat	acattgctgt	ggtgttgtga	agagggagct	agctgtgact	9240
gaagtcccat	atgtagtgtt	tccattatgc	ctgactctcc	ttaacgctgt	gcagctctag	9300
ggtatgtaga	actctttaga	ggcccaaggg	tccagggtag	atgctgaggg	gtcttttatg	9360
aggttagaca	gcaattccac	ccaggatc				9368

<210> 142
 <211> 419
 <212> DNA
 <213> Homo sapien

tgtaagttcga	gcagttgtgat	ggagggaaatg	gtctttggag	agagcatatc	catatccctc	60
tccacttgcct	ctaatgtctat	gaggtacact	gaggaagatt	aaacgggcta	gtcttaaaac	120
ccactattttt	aggtacactgt	tcaagctaat	ggttaagaa	caatttttgt	ttaactctgt	180
tccgttaatag	aagttgtgtt	ccgcacacac	gcaataagtt	tgtgttgaat	cagaagggat	240
tcactatagg	tttcaagtcg	attctttagt	taactctggc	gctgtgaaat	ttaagctctg	300
tgattatttt	aaattcttgt	cttcaacttat	gaagtgtatg	tgtgttgcag	tgtgtgtgag	360

tgogcgtgtg cttccggcag ttaacataag caaatatcca acatcacact gctcgactt 419

<210> 143
<211> 452
<212> DNA
<213> Homo sapien

<400> 143
tgtcaagtoga gaagtgtgtt gtccacatgca gtgtgttgtt gggacacgtt aatgagcaaa 60
ttgtatacaa tggctagtag attgaacggg attgttgtaa gctggtgagt gtatgactt 120
agcctgtttg acatagctat gcccatgggt ctggttaact aacgctctct ctttctcca 180
gataaatccc ccattgttta tattctcttc caaacatact aactcatca acatagatt 240
cctttgttaa tctttgttgc tagacttttc ctctcttgtt tctttattca aacctatct 300
tctttgata gattgcaat tcaatgtccc taagggtgna ggcagttcat gtaagggagg 360
ggggctagcc agtgaagatc gctcacact gctcgactta ca 402

<210> 144
<211> 224
<212> DNA
<213> Homo sapien

<400> 144
tcgggtgatg cctctctcag ccacagagat aaagcttcag acccttaaca catctcaaa 60
aggagagaa aggagaaaaa gggatctctc cccgttcaga agggctcagg agggagaaat 120
tgagttgatg tccagagttg cggacaactc ctttgttccc aagcgaggtg cagcggagga 180
ctggggagag agagccaatc aggttttgaa gttctctca gtgc 224

<210> 145
<211> 111
<212> DNA
<213> Homo sapien

<400> 145
agccatttc caccatccc caaaaaaaa aaaaaaaag aaaaaatca aggatcaaa 60
atgactttg aacacaaagg aacttttgt ggcggagga ggcctcacc g 111

<210> 146
<211> 565
<212> DNA
<213> Homo sapien

<400> 146
tagcatgttg agccacagcc cttgtagaga gaggagacca gttagaaga gaagaaagt 60
tttaaatgc tgaagttac tataagaaay cttagcttl ggttagact ttcaagag 120
cagaggtggt ttgcagaaa cttctaatat atgtgaggt gattctctat ttctctaat 180
aaatttaagt atattgaaa taatgcccac aactatttt cctctagga aaactattt 240
acattacata agtaaggcat tatgaagat ttcttttag gtatagttt tcttaattg 300
gtttgaact gctctcagt gctctgttt ttgtccataa tgaagatca agtaagttt 360
gagaaacta ttacatcaat ttgtatgatt gttttagaaa atgtctctat agggagctc 420
cctgggtggt tttaattat ttgtgtact ataatgggc taattatcaa aacattttt 480
agacatact taatttgtt ttccctgta taatgttgt gatgtctct cttgtattt 540
cttcgaact gggacatag ctgctgtgtc aggtctaca tgata 580

<210> 147
<211> 579
<212> DNA
<213> Homo sapien

<220>
 <221> misc feature
 <222> (1) ... (575)
 <223> n = A, T, C or G

<400> 147
 tagcatgttg agccacagaca atggggcagcy ggggtggcca ggagagatcc tgcacagccc 60
 aagcgtgttt gtctgtgaag gaacctgacg taacctgcca ggctaggag gggtcaatgt 120
 ggagtgatgt ttaacagact ttgcaggag ttgtcagag caggttgcaa ctgagttgc 180
 ttgtgttcac taacccctcaa gatctgcaca ctgtttcca aataaagcat caactgtcat 240
 ctacagatgg ggaagacttt ttctccacac agcaggcagg tcccacacca ctacagacac 300
 agcacgtcca ccttctcggg cagcacccag tccctcaact tctgtggtta caccgtgatg 360
 atgtacagaa agcgtgtctg cangaccagc tgcctcgtgt gctgtgcat ctcaatggcc 420
 tccacagcgt acacggtctt aggcagcgca tantgtgcac agaaabaatg atgtccagt 480
 cccacagccc acgtccacaa ngacttcatc cgtcagggat tctttaktct gaaggttagc 540
 ctgtgtgtatt aattgttgtt gtcctggctc aacatgcta 575

<210> 148
 <211> 249
 <212> DNA
 <213> Homo sapien

<400> 148
 tgacaccttg tccagcatct gcaagccagg aagagagtcn taaccaagt ccccaacccg 60
 ttggacccag gatcttggac tcccaatcgc cagaactctg agaatatgt atttgtatag 120
 aaatcaatct ttgtggttcc agatctttag ctatagcaga tcaaggtgac taagagaaac 180
 cccatagag ttacatactc ahtaatctcc gtctctatcc ccaaggttccc gatgtgtgac 240
 aaggtgtca 249

<210> 149
 <211> 255
 <212> DNA
 <213> Homo sapien

<400> 149
 tgacaccttg tccagcatct gctattttgt gactttttta taatagccat tctgactgtt 60
 ctgagatggt aactcattgt ggttttggc tgaattcttc taatgtcag tgaatttaag 120
 ctttttttaa atatgtttgt tgaacacatg tatatcatct tttagaagt gtctgttcat 180
 atcctttggc cactttttta ttttttato ttgtaaatct gtttaatttc ctacagatg 240
 ctggacagg ttcca 255

<210> 150
 <211> 318
 <212> DNA
 <213> Homo sapien

<400> 150
 ttacagctcca aactcgtgga gggcaagctg ggaacactt ttcattctaa ctggagagga 60
 gggagattta agtccagcag aggttgggtg ggtagacagt ggcactcaga atgtcagct 120
 ggcacactgt cccacatagc gaagacagac aaggtctgtg ctctccaggc ccagctgagc 180
 aacaggacac tgcctccggt gacacaaagc gtacagagat cccactctty aagcacggct 240
 tctctggtct tccctgaact cccgtttctg tttagacact ggttatagac aaggtcttcc 300
 cccagtgctg cagcgttaa 318

<210> 151
 <211> 323
 <212> DNA
 <213> Homo sapien


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<220>
<221> misc_feature
<222> (1)...(323)
<223> n = A,T,C or G

<400> 151
ttagcgcgcgc accnntgtaga gangghaagg atttcccacc attnccccct catnaagaa      60
ttattcncac aagnttgacc natgccattt atgacttaca tgcnaactac ntsatctgta      120
tcnagcctta aaagennmtc oactacatgc ntcaacactg tntgtgtaac ncatnaact      180
gtctgnaata gggguncata actanagaaa tgcanttcac actgtcttca ntcacatctg      240
cgtgtggcct tncctactct tcttatatto caagttagcat ctctggantg cttccccact      300
ctccccattg ttgcagcat aat                                     323

<219> 152
<211> 311
<212> DNA
<213> Homo sapien

<400> 152
tcaagattac aagagctgac cagtcacagg agagttgaaa tcatgaagga gagtctatct      60
ggagagctac gtagatttga gggttgcasa gacttaggat ggaatttggt ggtgtggtta      120
gtctctcaag ttgattttgt tcatnaattt cagccctcga atgccttctc tgcctcaacc      180
tggctcaagg cttagtgaac actaaaagt ctctgtcttc ttgctctcna aacttctcct      240
gaggtatttc tcatattgtc tcatattaga tgaagcagg ttggcaacc aagtcagctc      300
cagaggttca g                                     311

<210> 153
<211> 332
<212> DNA
<213> Homo sapien

<400> 153
caagatttca taggttgacc aggaagctat tcaagatctc tggcagttga ggaagtctct      60
ttaagaaact agtttaacaa atttgttaaa attttctgt ctacttcat tctgttga      120
gttgatctat gaggtctctt ttctaatgac aagatggaaa ctttccctac caggtttgta      180
aaattttgtc caggtctcat tgcacataat ctgtgttcca aatatccctg ttagttttta      240
aagacggaac tccccctttt gcttggtctt aagtatgtat ggaatgltat gataggaact      300
agtagtagag gtaggtcacc tatggatctc tg                                     332

<210> 154
<211> 345
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(345)
<223> n = A,T,C or G

<400> 154
tcaagattac ataggttgac ctggacagag atctctctgg tctggccagg gacagcagcc      60
tcnagctcag tgggaaggtt tttnatganc ctcaagattc ccaaaacctt ggaattgggt      120
accttgatc tcttcagaga gggaggagat gtaggtcttg gcttccacag ggaacttgta      180
ctttcagata aggttaccgc ttgctcaggg cttagatcat tannagcctg ggggtggaat      240
ggttggcagc ctgtggncac attgaaatag gctctggggc atctcctctg ttcctanttg      300
aacttgggtt aggaacagga atgtggctca cctatggaat cttaga                                     345

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43

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<210> 155
<211> 295
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 155
gaagccttggc cacttgacac attaaacagt ttgcataat caatancsig tatttccagt      60
ttgctgtctg ctgtgatgac ctgacctgat tctctggcgt taatgatggc aagcactctc      120
aaacgctgct ctgttatttc caagttataa ctggtcattg ttaagcatt atcttttcca      180
actaaactgt tcttctatma acagccctca tctatttcaa attaagagac atgttatccc      240
aetatctttt anggcacata tattttnagt ccttbaatta agagctactg tccgt              295

<210> 156
<211> 406
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(406)
<223> n = A,T,C or G

<400> 156
gagccttggc cacttgacac tgnagtggc aaacccagcat ggcgcgctgc ccccaaggac      60
cctcgaagcc caggccagag ccagcccatc ccagcctgca ggttaaagtg gtcacctgtc      120
aggctggcctt gggtgtgagt ggtgggggaa gtgtgtgtgc aaagggggtg taaatgnta      180
tgcctgtgag ctatgagtat ggttatgttg actgcatgtc agggagtggt aaaaacggctg      240
cgggggtgtg tgttcaagtg cgttatgata tgaagaatat tgtctgtgga tgaagtcatt      300
tgaagctctg tgtgtgtgpg tgtgtgtcat aggttcaatt anagctgag caggatgtgt      360
gagtgctcat ggaacacctca ttgtgtgtgt caagtggcct anagctc              406

<210> 157
<211> 208
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(208)
<223> n = A,T,C or G

<400> 157
tgacgcttgg cacttgacac cactaaagg tgttactact cactttcttc tctctctggc      60
ggctgtgtgag tgcactctat cacttggcac tcttttgitt ggcagtgcct gtaaacccaa      120
tctgtatgct acacacagctt gtatatgaa tcaatgtctc tcaatactgt tcttcccaat      180
anggtanggg tgaagagagc ggggagaga

<210> 158
<211> 547
<212> DNA
<213> Homo sapien

<220>

```

<221> misc feature
 <222> {1}...{547}
 <223> n = A,T,C or G

<400> 158

cttcaacata	cttcaacata	cttcaacata	cttcaacata	aaatacaacc	caatccagac	66
cccttagag	ctgagactac	agagctccgc	caatcaatct	ggataaatt	ttgtagagat	120
agggttcat	caagttgacc	tggtctgtct	caaacctctg	acctaagcca	atgtgccac	180
ctcagctcc	caaatgcttg	ggcttacagg	caatagccac	caatgcccgt	ccatntttaa	240
ctcttctcc	caatctcttc	ccacacttcc	ttttatgttt	agatucctaa	atgtcttacc	300
ttatgatcc	atggccacac	gtatttagac	agtaacatgc	tgccacaggtt	tgtagcctag	366
gaacagttag	caataacaca	taqcttaggt	gtgtggtaga	caataccatc	taaggtttctg	420
taagttacac	tttatctctg	ttacacatcg	acaaacacat	caatgagcgc	atttctcaga	480
atgtatcttc	gtcagtaagc	taigtatgac	agggcaacat	gcccaaggac	acagatactg	540
taactgt						547

<210> 158

<211> 203

<212> DNA

<213> Homo sapien

<400> 159

gctccctctg	cttcaacata	cttcaacata	tgtagcaat	tttatcgt	ttatctcaga	60
acagctctgt	cttcaacata	cttcaacata	caatgagaa	gttagccaa	caatgctct	120
ctcagctctg	cttcaacata	cttcaacata	cttctctct	cttctctct	cttctctct	180
ctcagctctg	cttcaacata	cttcaacata	cttctctct	cttctctct	cttctctct	240

<210> 160

<211> 403

<212> DNA

<213> Homo sapien

<400> 160

tgtaagttag	caagttctgt	gggtggaacc	gggttctaac	caatgagcc	aaactgtatt	60
caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	120
caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	180
caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	240
caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	300
caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	360
caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	420

<210> 161

<211> 193

<212> DNA

<213> Homo sapien

<400> 161

agcagcttag	caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	60
caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	120
caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	180
caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	caatgagcc	240

<210> 162

<211> 147

<212> DNA

<213> Homo sapien

<400> 162

tggttgagccc agaacctgac caggagaaa accaaccaat aaaaacaggc ccggacataa 69
gacaaataat aaattctagg gacaaaggaa tgaacacagc tatttgtaag cgggatatag 120
tgggtgtgtc ctggactcaa catgcta 147

<210> 163
<211> 294
<212> DNA
<213> Some species

<400>	163		
tggatgatg	agccacagac	caaatctctc cttagcaat aaactattc tgcatagtt	
ctaaaccca	cgcctaacgc	atgatttcc aaagaacaa tggatggg takttggtt	120
tggtgtctta	tctccctcac	attatctcca ttctatcat tgcctctta cccacagac	180
ctctcaact	tgtgtgta	caaatctcca tctgtctca aaactctc cccactctc	240
ctctgtttc	tcgtgtata	tctgtgtc tctgtctc cctcaaac acia	300

<210> 164
<211> 412
<212> DNA
<213> Homo sapiens

```
<220>
<221> misc_feature
<222> (1)...(4121
<223> n = A,T,C or G
```

<400> 164						
ccgagatctggc	tttagagctgc	agctgctgcgc	tgtgacccgcga	cacggcgctgg	sacagagaagc	65
caactcgtctg	aaagtcgcgc	agagccgcgc	tgactcaactgt	ctgctctatggg	ctgtggggcgt	120
ctgagaaatcc	acggccgcgc	aggaagaccca	gacacccgcga	tacacccgcga	ccagagagata	180
ccgagctatgt	tgggcgcgcg	cggagccgcgc	ctgtgcctgac	cggtggcgagc	cgccgcgaagc	240
ctgacacgcg	tttgtctctc	acggctcaagg	ccgcgaagtcgc	agggcgatcc	atgacgaacct	300
gaagacacgc	ccagacgcgc	ccgacggcgcc	ggggcgccaaa	gcacaaagctg	gcttggctgct	360
gacacacgcg	cggtgcgata	tccagatcct	gggacacggc	tcaactccta	at	420

<210> 165
<211> 361
<212> DNA
<213> Homo sapiens

<400> 165						
tgacacacgctt	gtccagcgatc	tgccatctgat	gagagcgctca	gctggctaac	actaactgac	65
gagggcgaaag	gagacacagc	atttgatggc	agagaaagaa	agagcggaga	ggggcgagga	120
ctgtgaggtt	ctgttcacac	accagcttgc	ggaggaagag	agagtaagag	gtccagggca	180
gtgtggtgtg	ctccacacgc	taattccacg	ctctttaggg	gtctgagcac	gagatgatgt	240
tgacgcctgg	gtgtttgtac	cagcgcctac	acacactatg	gactcctct	ctacacatg	300
tacaaacatt	actcaggcat	tgttggtatg	ctgttgatgc	cagatgtgtg	acagaggtgc	360
a						361

```
<216> 166
<217> 427
<218> 58A
<219> Homo sapien
```

<600> 166		
twagatgaat	cargtccct	acaccccaact atctttcca ggiguccagg caigatagaa 60
atgatcatg	acttagggg	ataattttt ttactccc atcttgatc ccgcgggtg 120
acttctctg	acagatgaa	gaaacccct ccccccag taatcaacaa atcatcttc 180

soagagctac	agaaataagag	aacwtgggacw	tagccagcgag	aacmcaaktg	aasmcagagac	249
motkacmetag	gaftracaaac	marrratater	ktgcycmcmc	wtataetaga	aacmaaacctt	366
gretclsaatt	aaataatttat	ccacygtcag	ggcattagty	gttttgataa	ataagctttg	360
gutaagagtc	ctagaggttag	aatggaaaraa	caattgcama	gagggtaggg	gaatttgagtc	420
aktcttaa						427

<210> 167

<211> 509

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(500)

<223> n = A,T,C or G

<400> 167

aaogtgcgat	gctcccggn	gcactggcg	cgggataagac	tgactcaatgt	ccuctaagat	60
agaggagaca	cctgcttaggt	gtacggagaa	gagtggttagg	tctacggagg	ctccaggggtg	120
ggactggttc	cctgcttaggt	gtacggagaa	tgctcaacct	gttctgtctc	gggctccccc	186
tataagcagct	ggagcggggg	gtacggagaa	gggaggttag	agtcagagag	ttatgttgttt	240
tatggggggg	aacgccttat	cgggggggag	cragttatta	ggggacactr	taghyartwr	300
agntagcato	caaacggcngg	gagttatccc	atatggttgg	acattgaggg	gggacgatta	360
gggattagca	tgtgagcnc	agacacgcac	agcacacagg	acntcaatc	agatcctgtg	420
ctgattactt	acatgaatt	attgtattta	tttaaacact	tkgagttatg	aggcatatta	480
ttaggtccat	attacctggg					500

<410> 168

<211> 358

<212> DNA

<213> Homo sapien

<400> 168

ttctatgctc	ggtagactca	gcctgtatcc	ccagagcttt	gggggggggc	gggggggggg	60
ttacatcgag	ttgggaqgtt	ggagacagcc	tggtcaacct	ggtagaacac	ggtctctggt	120
aaataataca	aaatttagcc	agcatggtgg	catgcacctg	taetccagcc	tatctggggg	180
gctgagggcg	gagahacact	tgagggccag	agggccaggt	tgaggttagg	agagaggttg	240
gactcatgcc	ctgcactcda	gcccggggca	cagagtaaga	ctccatctca	aaahaaaaaa	300
aaabaaagga	tgatcagggc	caacaaatca	gaacaccttg	agtcacggag	ggatgaaa	358

<210> 169

<211> 1265

<212> DNA

<213> Homo sapien

<400> 169

ttctgtccac	acaaacttta	gagctctgaa	agaaattgga	tttaaatata	tttaaatagc	60
aaactgtatc	ttatggacac	aattgacatt	ttagactatt	ttttcccaaa	aaaggtccag	120
tgaattctag	caactctgag	ttgggaaktc	ttatccnaga	agwgggcagc	agcaatttca	180
tacttattta	agatttgatc	caatactcgt	tttccagggg	aaatccctga	gtttacattca	240
aggttgaaac	aattctctcc	attttttttt	naacattctg	ggatlggac	ttaaagaggtg	300
actctaaaca	acaaagaaac	aaatatgtat	caagtgttat	agagacggag	ccatatttatc	360
atatctacac	aaasaaatga	tttccctgtc	acatttgggc	aaattctctt	ttcaattgag	420
ggaaasaaat	agtcacccct	aaacacccca	aaataaataa	aaattctaga	tgtagggcga	480
argtttgggg	gtggacattg	tatgtgttta	aattaaaccc	tgatctcact	agaaatttgt	540
gtatggggcg	gaggaatatg	atgottagaa	gctgttccca	tcttccagag	caagagccaa	600
ccaaatgtct	caagctatat	aatatttlat	tttatgcat	aaagtgatc	attttttctg	660
tactaattto	caaaggggtt	taacacttat	tttaattgct	tgaaacacag	tgcaattgca	720

atgggttgat	attttttttt	aaagagaaaa	tatatattatg	aaagaaaaga	taactctgaag	789
ccgtgtttat	tttataaatt	tttatgtttc	gtgggtgatg	ttgtttgttt	gtttgtttct	848
atktttgttg	tttttttaatt	ttgtttttgt	ttgtttttgt	ttgtttttgt	caactacat	906
gcgttttttt	taacaaatgt	ctgtttgtgt	aatgtaatta	aatgttttaa	tttatctgag	960
tgnattttaa	ctatgtcaat	ggttttttta	taattattgt	gtagaaatga	tgttaatttt	1020
ttatttttaa	atattgttaa	agagataaca	gtttgatatg	ttttctatgt	tttatagcag	1080
aatatttata	ttctatagga	atccagcagg	atatttttgt	gtttggagag	catcagatca	1140
atattttgta	cagtttagtg	acagtattca	gcacagcctg	atagtttttt	tggccttatg	1200
tttaataaaa	agacctgttt	gggtatgtaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1260
aaaaaa						1265

<210> 170

<211> 383

<212> DNA

<213> Homo sapien

<400> 170

tgtaagtcca	gcagttgtga	gcagtatctc	ttttatttaa	tgtgttaatt	gaacaaatga	60
ctgtgtatac	tgatctctgag	ctaggagggc	ctgttcagtt	aatgggacct	cttctgtactc	120
taattgtatc	agagacacatg	ctggctacaa	ctaaataaac	caaaaaaggt	gaatttttaa	180
attttttcta	caacatattgt	ctgtctgttc	tcacagcacc	acttttgenc	aaactctcag	240
agacaaatgt	tgaaaagaggt	aatatagttg	gtctaaacaa	aaacaaacaa	atttgcctgg	300
ctaatttaca	aaacagcaccg	ctacttgcct	taatttttag	gttaactaca	atttctgtgg	360
aaactttaca	tgtctgacct	aaa				383

<210> 171

<211> 383

<212> DNA

<213> Homo sapien

<400> 171

tgggtaacct	caactatoga	agtttaaaat	aatgtttgat	taattttact	tttgacctgc	60
ttgtttcaac	aggttgaaag	catgttaaga	atgttgacct	ctgaggaatt	tttttttaa	120
aaagacataa	tgaagttaac	tttttaattc	tcagggacta	cttttggttg	aatgttttaa	180
ttctgtatca	ctactttttt	cttttttgct	ttctagagtt	caacaaagac	tttagcaatt	240
taacaggttaa	actctgttga	gtatgttgag	tgaacttgaa	atttataatt	attctgtaaa	300
tactataggg	aaagaggtgt	agcttagaat	attttgtttg	tttatgttgt	ctgtgtcttt	360
atcatcaaac	tgctgacctt	aaa				383

<210> 172

<211> 609

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(695)

<223> n = A, T, C or G

<400> 172

tgggttgatg	ctctctcagg	ctttgtttta	gtgtacaaag	aggtgtacct	gaagcagcag	60
aggtgttgac	tgggaattta	gaactttctc	ctctcaactt	ttgtgtcgct	tttgaattta	120
ggtttgactg	ctgtgggggg	ctctggggga	ggctctctgg	aaagtctctc	aggtatggga	180
gaactctgtg	tgtttggagc	ggacttaaat	aggtgtctca	tgtctgtctg	catagagact	240
ggacagacaa	tcacacgctc	ctttgtgttg	ctctgtctgc	tgttgtgtca	ctcgtgtgac	300
tcagctgtct	tgtctaggtc	ggagcttcaa	ggagctttct	ctgtgtgtca	atttgtctat	360
ggctgtggaa	tgtgtgtgta	ctatgggaga	aggtatgtct	tgacaaatca	ctcctgtgct	420
cgtgacctgt	tatgtggggc	ggacaaacaa	gactcctctc	ctaggtctct	ctcctctctc	480

48

catcagagggc	cctgtaacaa	gtgccttctg	ggaagagctg	gagaagtggg	ggungccagg	540
ttctctctctg	gaggtttggg	gctgaagggg	baacccctgg	agatgtggag	tggtgggttg	600
ggttaagaaa	tgcttaccac	ccccaccacc	gaacacagtt	atttcagact	aagaaattaa	660
ggtaacatcc	atacctaggc	ctgaggaggc	ataccacgga			699

<210> 173

<211> 761

<212> DNA

<213> Homo sapiens

<400> 173

tgggtgagtg	cctctctcaga	ccagatcuaa	cttgggggttg	aaactgttgc	aaagaaatca	60
atgtcggaga	aagatatttt	caaaagaaaa	atgcctaatc	agtaataatt	taataaggta	120
catctagcag	ggagagaaga	atgttgatatt	tttatgtcag	ctattttata	atacaccagag	180
tgcttagctt	catgttaagcc	atctcgtatt	cattagaaat	aaagaaacatt	tttatcgtct	240
gaaggaactt	ttcaatttat	agcatcttaa	ttgctcagga	ttttaaattt	tgataaagaa	300
agctccactt	tgggcaggag	tagggggag	ggagagagga	ggctccatcc	acagaggcag	360
agacaccagg	gcagataggg	tacgtgggtg	ctggatcagt	caacaacggc	tgacttatgc	420
catgagagaa	aaacacctcc	aactctcagt	tgcttaatac	aaacaaagct	cattttcttc	480
tcacgttaca	tgctctatgt	agatccacag	caagtgactc	agggaccacg	gctccatctc	540
catatgagct	tcatactgta	ccaggacagc	ggctctgaac	gtgtccctcc	tgacagggac	600
catgcccctt	cctttcattg	ggacagacaa	gtcatttatg	gacagagatc	acatgtgagg	660
gcagtgccat	cctgtgtgtt	ggttagagag	gctacacccg	a		701

<210> 174

<211> 760

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> {1}...{700}

<223> n = A,T,C or G

<400> 174

tgggtgagtg	cctctctcag	ccccaaatc	agagtcaggc	gtcagagcca	caggagacag	60
ggaaagagact	agattttaac	ggcccccctt	caaggagctc	tgaggcctac	ttcattttgt	120
tggagcttga	caaggggcag	caagggtagt	ggtagaggcc	acggtctcta	agctgcacct	180
gccttgagctt	gcctccacc	ctcggcaggc	aacagctagg	tggtcttgag	gtgtgtacac	240
gcagaaagac	cctgttgga	ccagttctct	cctctgttaa	atgaggaacg	gactctagga	300
acactttccc	tgggtttggc	ctcacttttc	taagctccca	tccttgacct	tatctacttc	360
ttctctgaaa	cctttgaaaa	gaacaaagtg	ctagcctggg	caactggcca	aaacctgttc	420
ttctcaaaaa	atacaaaact	tagttgggtg	tgggtggctg	tgctcttgat	ccccgccact	480
tggagggggc	tgggttggga	ggatcacttg	agcccccagg	gtggagggtg	caagtggcca	540
agatcatgac	actgcaactc	apcctgagta	atagagtaag	actctgtctc	aaacacacac	600
acaaacacag	tgaagtgtgc	tcgttttcag	gggtgggttg	ggacacacac	ttatgcatct	660
ctcagatttg	gaggtggag	ctcggaggag	catcaaccca			700

<210> 175

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> {1}...{464}

<223> n = A,T,C or G

<400> 175
tataggggaga atggggcccg agtggcatgn tccggggcgc catgggcgcg gatttcgggt 60
gatguctctc caggcttctg tgcacacagc tactttctct agtcacagac gtgcaccttg 120
atgggggaaa atgtctctact gcactcgcaa ttctctcgtt ccatittaac tccacagctc 180
cctcttaaac cagtttaaat atctatttca caagtattta ctgatttact gctgtgccc 240
gggaclattc tccaggtgaa gaaggtggga ggggagggcg gaaactgggg agcaccctgc 300
gcacagcttta tctttcaaac atggctggcg cactctgagc catctcccca ctctagccaa 360
cctatcgggg catagccacg ggtatgcctc aggcggccca ggttagatgc ctccctttgg 420
cctgtccatg atgacataaa ccttagctgc ttagctgggt ctggactgag gaggcctcac 480
ccga 484

<210> 176
<211> 432
<212> DNA
<213> Homo sapiens

<400> 176
tcgggtgagc cctctcagg gctcaaggga tgagaagtga cttctttctg gagggccagt 60
tcattgccac caggctgaaa atgggahagg aocccactgg aggccttgct gatctgtttg 120
gacaaattgc agtgagggga atgtactctg gtccaggagt tatccaggat agattttcac 180
ccactatggg acgtctactgt tccaaataac tcttcaagtg ccaaggggga ccaactatgc 240
ctccacacaa atgtcagttt ggcagagatg gaggcacagt targaasgcg cagggtctaa 300
gcagagctta ccaataccac agtcaggagc tcttttcca gctgcacaga cgttcgaaag 360
atatgcacac tcgggtttct aagaagaagc agcttaatgc agatggatt agctctagga 420
ggcacaacac ga 432

<210> 177
<211> 788
<212> DNA
<213> Homo sapiens

<400> 177
tagcatgttg agccacagaa cagtcgctt tgtgcaatt tctggttgga atggtgacaa 60
cargctggag cccagtgcta acatgccttg gtccaaggga tggaaagtc accglaagga 120
tggaactgac agtcgaccca cgtctcttga ggccttgagg gcatcctac acccaactgc 180
cacaactgac agcgccttgc gctcctctat caggagtgc taaaaaattg gtgacttgg 240
tactgttctc atgtgcggag tggagactgt tgtcttcaaa cccggctatg aggttccact 300
gtgtccayta cctgtttaca cgaagatgaa atctgtcga atgtccactg aagctttgag 360
tgagctcttt acgtgggaaa atgtggctt cactgtcaga atgtgtctgc tccaggtatg 420
cactgtgggc aactgtgtgt gtccacagaa aatgaccca ccaatggact cagctggctt 480
cactgtctag cctgttatcc tgaacactcc aggcacasta agtgcggctt atgcccactg 540
attgatttgc cacaaggcta acattgcctg ccaagtttgc gagctgaagg aaagatgga 600
tcgcctttct ggttaaaagc tgaagctatg ccttaaatc ttgaagtcgt gtgactgc 660
cactgtgac atgttactg gcaagcctct gttgttggg agcttctcag actatccccc 720
tttgggttgc ttgtgttct gtgatalgag acagacagct ggggtgggtg tctggctctc 780
acatgcta 788

<210> 178
<211> 786
<212> DNA
<213> Homo sapiens

<400> 178
tagcatgttg agccacagaa cctgtgttct tgggagctct ggcagtgccg gatttcagag 60
cactgtggct gacacttgaa tgaacaactt ggttttata gatttactag tctttaaaaa 120
attgtgttgc gttcttttct attaaaggtt taatgaagca gatcagaacg catatttttg 180
tcttctatga ggaacagctt ggtactcttc ttaagaaagt agcttgcct ctgaagcagc 240
agcctacaaa aggcacttgt tctaaatgac agttctggtc ctgagagcca gtactctgga 300

gkttacagac	agccagtgat	tgkaccggtc	agtgatguct	agttatatag	agggagggtc	360
caactgtgca	tctctcaggt	gtaagggtat	gcaactttgg	atcttataat	tctgtacaca	420
tcaacacctt	atatakatgt	atgtatgtat	gaaacaculg	aatlagatgt	tcaaatatgt	480
gtgtgtttag	takkttagct	tagtgcacat	attcttcac	tctttatcaa	attgatctta	540
gacacattct	tgctgaacac	tggaaattta	atgttcaagg	gtgcactgtg	tattccttta	600
gatttgtaca	gkttasitac	tatgatttgc	agtaaatcaa	cttttaaaat	gtatttgagg	660
ccctctgtag	tgcctgtagg	ctcttaccag	gtgggaagaa	ttttaatitt	caagtgtcta	720
attgaacagt	atggcctaat	tatatatttt	gatttatagg	agttctgtgc	tgggtcaaac	780
atgata						796

<210> 799

<211> 796

<212> DNA

<213> Homo sapien

<400> 799

taagcatttg	agccagagaca	ctggttaca	gaacagacat	gcttctctca	tatgttaaca	60
gcttttaca	agccagtga	cttttcaat	actttggca	acttcttca	caggcaagaa	120
acacacccat	cgcgcctctg	tttgagtg	agagtttgg	tttggtctt	tgccttgcc	180
ggagttact	tctaatctct	gttgtctgc	acaagtgtga	tadcgagta	cccaacgca	240
ccagagccag	gttcaacatc	atttatact	ttagtttct	gttcaattgc	tggttcaacg	300
aaataagitt	cttttggag	gaattgtatt	atacccttt	aatctctct	ttttgtttt	360
tttcaatct	attgttatgt	gtttgtgcca	gaggaaatt	aatctctca	taattttga	420
tggcaatcc	attacacatg	tttttttaca	aaactgaatt	ttttgtgct	taatttggc	480
ggtatgctct	ctctgtgtac	tggttttat	tgtctctcta	gtttctagg	ggatttggc	540
atgaggtctg	aggaacagac	tgttttaca	caaaagtgca	caagatctca	aatcttggc	600
aaaggtgtat	gtcaagtttc	aatgtatct	gcttctgttc	ctgtctactg	ttctggatct	660
tgtctctct	caacatagc	acacagattt	ccagctctcc	ctctctactt	caatttggc	720
taattctaat	ctatagaca	ataaatttt	caaatgtttt	aaactgtctc	ctacttggc	780
tgggtcaac	atgata					796

<210> 100

<211> 496

<212> DNA

<213> Homo sapien

<400> 100

ggatgtgtgt	caagctgatt	aaatttggtt	acggcagggt	tttcccaagt	acgaattgt	60
aaatcgaagg	ccagtgcatt	gtatctacac	tcaatctagg	gcgaatttgg	ccgaattgtg	120
actgttcccg	ccagccatgg	ccggcgggaa	gaatttgttg	ccagctacac	tgaattgtat	180
ttggagagat	ttttcaatt	ccagcatttg	tggttttttt	caagggagga	gacatttgg	240
actcccaagg	tgaattttaa	gaatttctct	agatagccgg	ataagtagac	tgaaggggat	300
gccttagaag	tgatagat	gaaattttct	actgcacatt	tcagaactgt	gtgtcagct	360
actttcagct	gttctctgtg	actctgaagg	agagaggtat	tgaacttttt	ctgtgtggc	420
ctctaacatt	gtacacagct	actctgtgtg	tgtgtgtgtg	tgtgtgtgtg	ctgtgtgtg	480
actctgcta						496

<210> 131

<211> 317

<212> DNA

<213> Homo sapien

<400> 131

taagcatttg	agccagagaca	cggcagcagg	actctatgag	tgggtgtgtg	gcaacttga	60
aaagagggaa	agctatccca	catgatattg	gggacacaga	tgatgaacca	tgatctcgg	120
ccagctgata	tttaatacat	gacactgtgt	atttggacaa	actgacactg	aaattttgtg	180
tggagattta	tggagattat	taactcagg	gtgacacaaa	cttctctgag	gcaattgtgc	240
ctgtgtgtct	agtaagggat	gaaacttgag	tggcactgtg	gcaaggggta	tgggtgtgtg	300